The FERGUSON SYSTEM

PARTS BOOK

FOR FERGUSON TRACTORS

NOVEMBER 1952

Harry Ferguson, Inc.

DETROIT MICHIGAN

88-28623

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B-TTA-21 TRACTOR TRACK ATTACHMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	QUAN. REQ'D.
1	B-345	TRACK ASSEMBLY-Endless Composed of items 2 and 4 thru 7	2
2	B-346	TRACK BELT-Endless 2½"	2
3	C-304	HOUSING ASSEMBLY-Bracket-R.H.	1
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	C-313	SPINDLE ASSEMBLY-Body-L.H.	1
9	C-314	CHAIN, BOLT, WASHER & NUT-Spindle Body	2
10	A-326	PIN-Cotter-Tension Chain Bushing	2
11	C-319	ROCKER & SPINDLE ASSEMBLY	2
12	A-320	BUSHING-Rocker & Spindle-Shown in Position	4
13	A-321	FITTING-Lubrication-Rocker & Spindle	4
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16	A-330	BOLT & NUT-Spring Holder Bracket	2
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18	A-337	FELT-Mud Excluder-Wheel Bearing	2
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20	S-9800	CUP-Inner-Wheel Bearing	2
21	S-9814	CUP-Outer-Wheel Bearing	2
22	S-9882	CONE-Inner-Roller Bearing-Wheel	2
23	S-9814	CONE-Outer-Roller Bearing-Wheel	2
24	B-1195	WASHER-Spindle-Wheel	2
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	A-341	CAP-Hub	2
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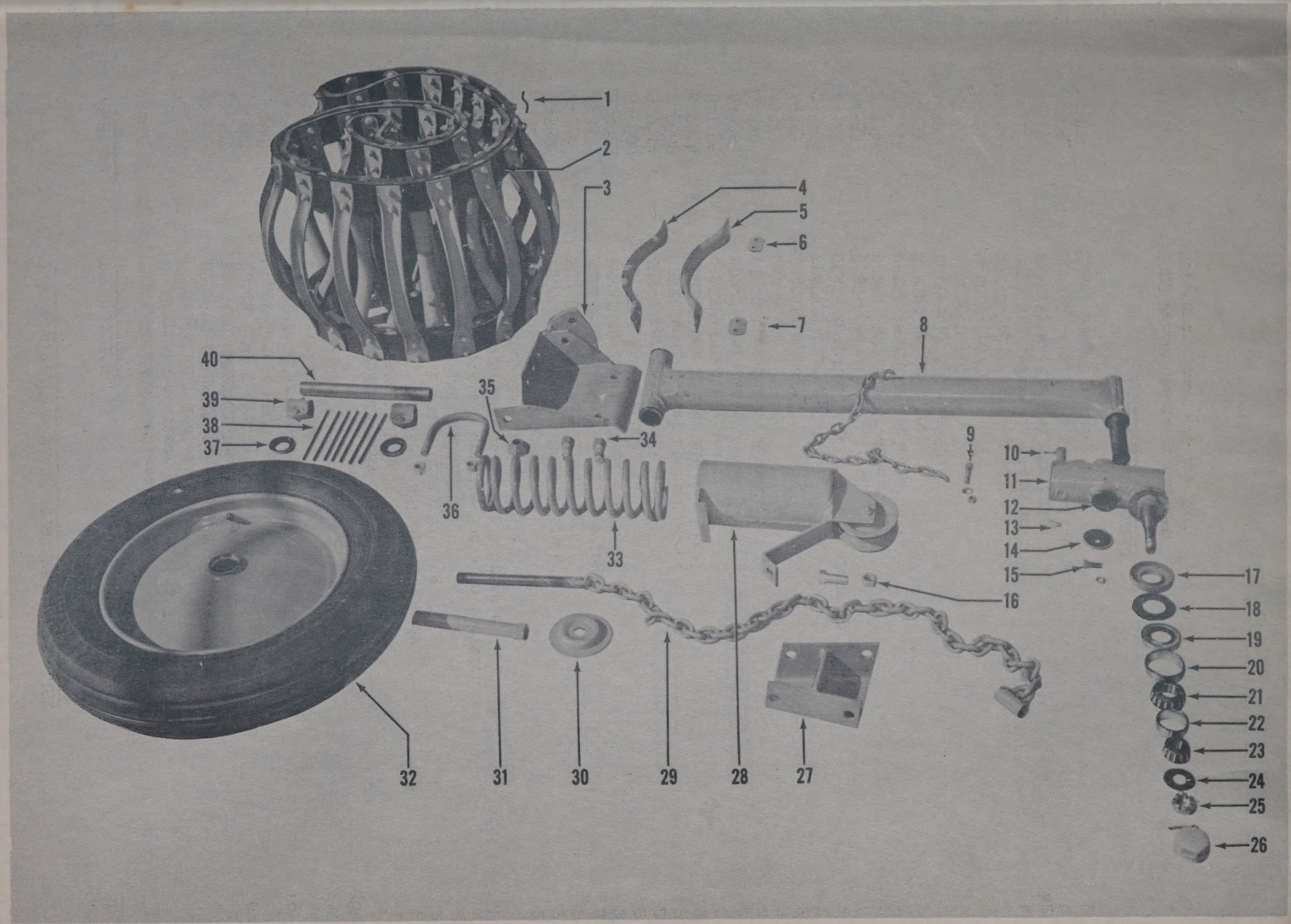
NOT ILLUSTRATED

	A-356	BOLT-Fender Mudguard Bracket	4
	A-357	NUT-Fender Mudguard Bracket	4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FOREWORD

Only the highest quality of materials are used in the manufacture of Ferguson Tractors and Ferguson Implements which have been designed and built for maximum performance and longest possible life. These same high standards of quality and precision manufacturing are maintained in the production of genuine Ferguson service parts. Therefore it is your duty to the owners of Ferguson equipment in your territory to stock and sell only genuine Ferguson replacement parts. Your customers are entitled to this protection.

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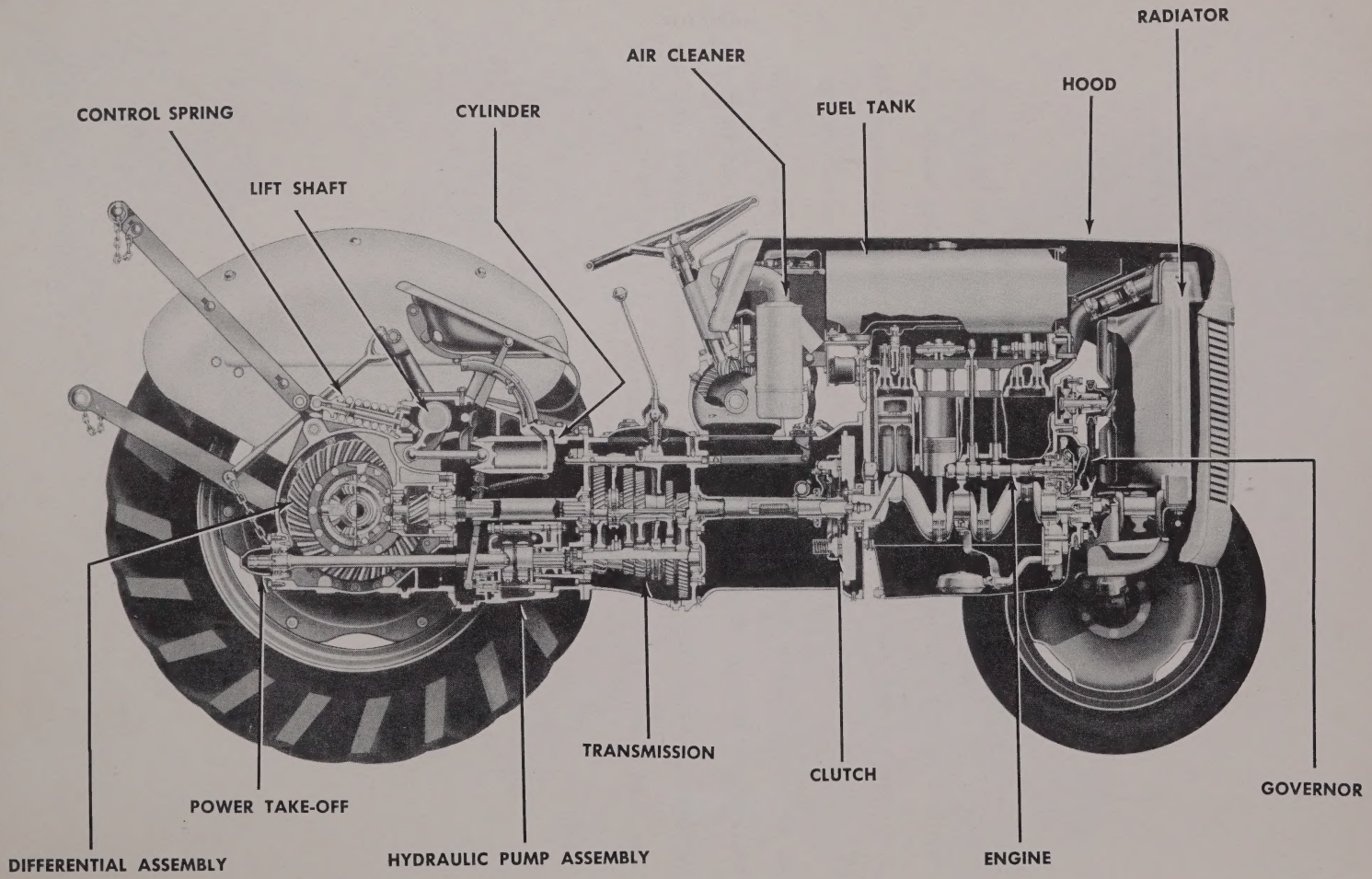
RADIATOR
AIR CLEANER
HOOD
CONTROL SPRING
CYLINDER
FUEL TANK
LIFT SHAFT
TRANSMISSION
CLUTCH
GOVERNOR
POWER TAKE-OFF
DIFFERENTIAL ASSEMBLY
HYDRAULIC PUMP ASSEMBLY
ENGINE

ARRANGEMENT

This Parts Book for the Ferguson Tractors has been arranged for your easy identification of all genuine Ferguson service parts.

To facilitate the ordering of service parts, the column headed "Quantities Required" has been divided to show those TO-30 and TO-20 Ferguson Tractor parts which may be used to service the TE-20 and TE-A20 Ferguson Tractors as well as 9N-2N Tractors.

Service parts for the TE-20 and TE-A20 Ferguson Tractors which are not directly interchangeable with service parts for the TO-30 and TO-20 Ferguson Tractors, yet are related to the parts as shown in the illustration, have been listed and an identifying symbol shown after the corresponding TO-30 or TO-20 Ferguson Tractor part. Where no quantities appear a (-) has been added designating not used or not required on that model. Where (★) and numeral appear, it designates quantity required up to a certain serial number.

Each group of component parts, for the TO-30 Tractor, beginning at the rear and finishing at the front of the tractor is illustrated and copy pertaining to the illustration appears either on the page opposite to, or directly below.

Accessories and Special Equipment for the Ferguson Tractors are listed and follow the major components of the tractor.

★ ★ ★ ★

This book supersedes catalog dated August 1951 form O-3400-A

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INSTRUCTIONS

Wherever more than one part is covered by a reference number, the function of the parts are listed only once, that is after the first part number listed.

EXAMPLE:

7	62-001-138	BOLT - Hex Head - Front Axle Pin to Support
	62-14	WASHER - Lock
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NUMERICAL INDEX

Reference to any part number is provided in the numerical index along with a comprehensive description.

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NS Indicates not Serviced.

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NS Indicates not Serviced.

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NS Indicates not Serviced.

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NS Indicates not Serviced.

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INSTRUCTIONS

FOR THE USE OF THIS BOOK

The arrangement of the illustrations and parts lists in this catalog has been planned for your easy reference.

For example: In Figure 1, Reference Number 1 indicates the Driver's Seat.

In the parts list below the illustration, Reference Number, 1, lists TO-400-B with quantity of one (1) under heading "TO-30" and symbol "★" under heading "TE-20 and TE-A20."

Symbol "★" as shown under heading "TE-20 and TE-A20" indicates that TO-400-B cannot be used for servicing TE-20, and TE-A20 Ferguson Tractors. Part Number 2527 as listed under "TE-20 and TE-A20" Service Items-Not Illustrated", with the same reference number 1 is required with quantity for (1) under heading "TE-20 and TE-A20".

This system has been employed throughout the parts book thereby providing accurate illustrative location together with a ready means of reference from illustration to copy with complete details for the servicing of genuine Ferguson service parts.

TRACTOR PARTS LIST

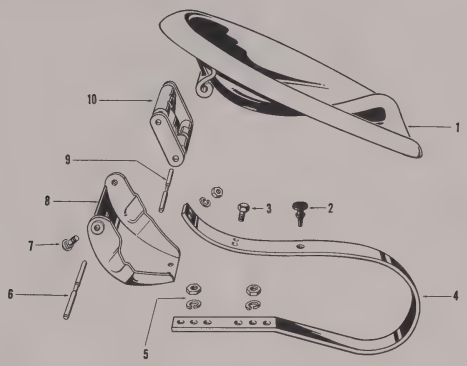

FIG. 1

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 1 HINGED DRIVERS' SEAT AND SPRING ASSEMBLY
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
	TO-439	1	1	-	1	1	1	SEAT AND SPRING ASSEMBLY - Hinge Drivers' Composed of Items 1 thru 10
1	TO-400-B	1	1	-	★	★	★	SEAT ASSEMBLY - Hinged Driver
2	TO-434-A	1	1	-	-	-	-	BUMPER - Driver Seat - Rubber
3	31-162-88	2	2	-	-	-	-	SCREW - Truss Head - Hinge to Seat Spring
	31-14	2	2	-	-	-	-	WASHER - Lock
	31-2103	2	2	-	-	-	-	NUT - Hex
4	TO-404-A	1	1	-	★	★	★	SPRING - Driver Seat
5	44-14	2	2	2	2	2	2	WASHER - Lock - Spring to Lift Cover
	44-003	2	2	2	2	2	2	NUT - Hex
6	TO-437-A	1	1	-	-	-	-	PIN - Driver Seat Hinge - 7.30 Long
7	31-011-88	2	2	-	-	-	-	BOLT - Carriage - Hinge to Seat Spring
	31-14	2	2	-	-	-	-	WASHER - Lock
	31-003	2	2	-	-	-	-	NUT - Hex
8	TO-440	1	1	-	-	-	-	HINGE ASSEMBLY - Driver Seat
9	TO-437-B	1	1	-	-	-	-	PIN - Driver Seat Hinge - 6.87 Long
10	TO-438	1	1	-	-	-	-	LINK - Hinge
		★ TE-&TE-A-20 Service Items - Not Illustrated						
1	2527	-	-	-	1	1	1	SEAT ASSEMBLY - Driver
4	7062	-	-	-	1	1	1	SPRING - Driver Seat
	1221	-	-	-	1	1	1	BOLT - Driver Seat to Spring

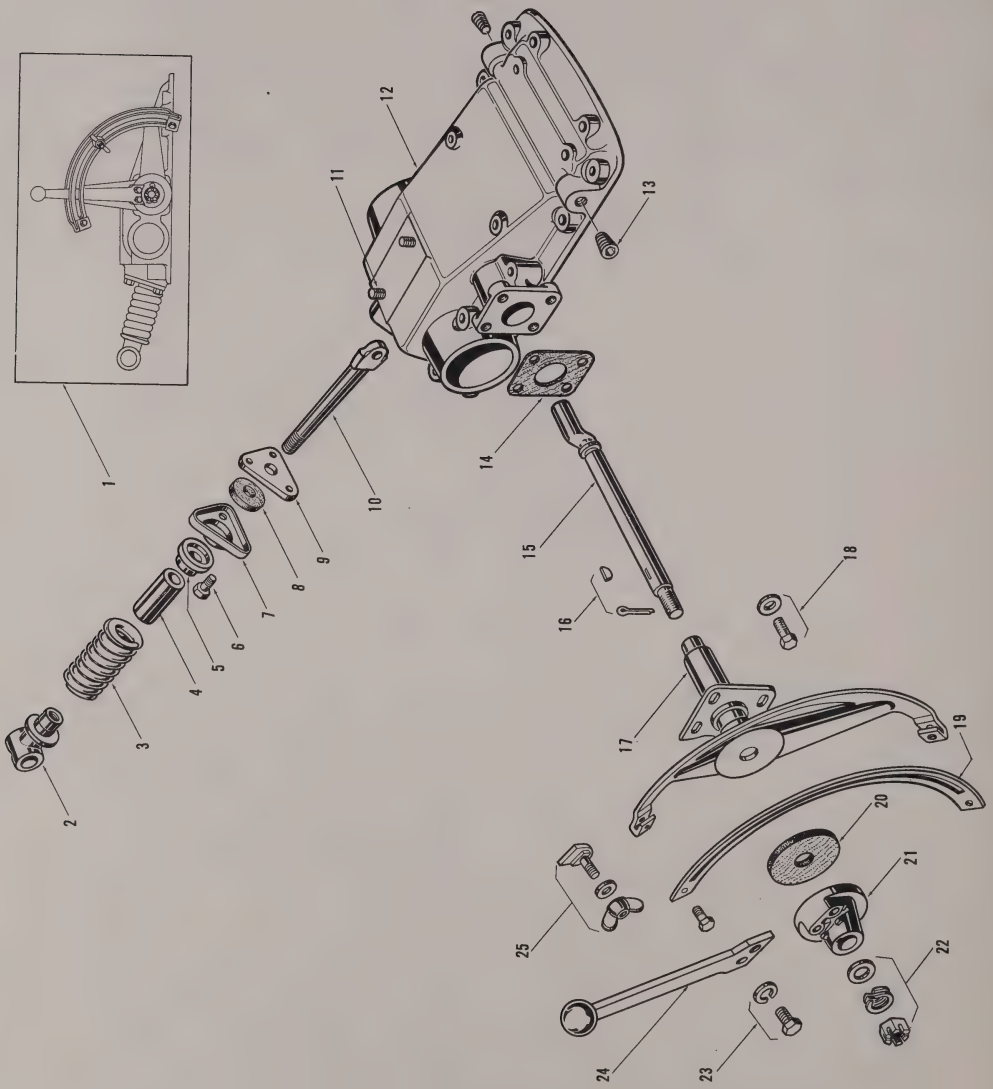

FIG. 2

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 2 HYDRAULIC LIFT COVER AND RELATED PARTS
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
1	TO-500	-	1	-	-	-	-	LIFT ASSEMBLY - Hydraulic
	TO-500-A	1	-	-	-	-	-	LIFT ASSEMBLY - Hydraulic Not Serviced as an Assembly Composed of Items 2 thru 25 and 1 thru 23 Fig. 3
2	TO-546	1	1	1	1	1	1	YOKE - Hydraulic Lift
3	TO-547	1	1	1	1	1	1	SPRING - Hydraulic Lift
4	TO-631	1	1	1	1	1	1	SPACER - Hydraulic Lift Spring - (w/TO-675 for TE- and TE-A20)
5	TO-675	1	1	1	1	1	1	SEAT - Hydraulic Lift Spring - (w/TO-631 for TE- and TE-A20)
6	44-101-112	3	3	3	3	3	3	SCREW - Cap - Support and Plate to Cover
7	TO-624	1	1	1	1	1	1	SUPPORT - Hydraulic Lift Spring Seat
8	TO-529	1	1	1	1	1	1	FELT - Hydraulic Lift Spring Seat
9	TO-527	1	1	1	1	1	1	PLATE - Hydraulic Lift Cover
10	TO-541	1	1	1	1	1	1	PLUNGER - Hydraulic Lift Spring Control
11	44-0132-150	2	2	2	2	2	2	STUD - Seat Spring to Cover
12	TO-501-B	1	1	1	1	★	★	COVER - Hydraulic Lift - (w/S-10171 for TO-20, TE, and 9N-2N)
13	S-353055	-	2	-	-	-	-	PLUG - Pipe - Hydraulic Lift Cover - Up to 11,000
	S-10112	2	2	-	-	★	★	PLUG - Pipe - Hydraulic Lift Cover - 11,000 & Future
14	TO-532	1	1	1	1	1	1	GASKET - Hydraulic Lift Quadrant to Cover
15	TO-517	1	1	1	1	1	1	SHAFT - Hydraulic Lift Control Lever
16	16-09-62	1	1	1	1	1	1	KEY - Woodruff - Control Arm to Lift Shaft
	12-05-88	1	1	1	1	1	1	PIN - Cotter - Lever to Shaft
17	TO-515	1	1	1	1	1	1	QUADRANT ASSEMBLY - Lift Control
18	44-101-94	4	4	4	4	4	4	SCREW - Cap - Quadrant to Cover
	44-204	4	4	4	4	4	4	WASHER - Flat
19	TO-520	1	1	1	1	1	1	RETAINER - Lift Control Lever
	31-101-38	2	2	2	2	2	2	SCREW - Cap - Retainer to Quadrant
20	TO-518-A	1	1	1	1	1	1	DISC - Friction - Lift Control
21	TO-516	1	1	1	1	1	1	PLATE - Friction - Lift Control
22	TO-522	1	1	1	1	1	1	SPRING - Lift Control Quadrant Lever
	44-104	1	1	1	1	1	1	WASHER - Flat
	44-013	1	1	1	1	1	1	NUT - Slotted Hex
23	25-101-44	2	2	2	2	2	2	SCREW - Cap - Lever to Friction Plate
	25-14	2	2	2	2	2	2	WASHER - Lock
24	TO-512	1	1	1	1	1	1	LEVER ASSEMBLY - Hydraulic Lift
25	TO-521	1	1	1	1	1	1	STOP ASSEMBLY - Control Lever
	25-104	1	1	1	1	1	1	WASHER - Flat
	S-9753-D	1	1	1	1	1	1	NUT - Wing
	★ TE- and TE-A20 Service Items - Not Illustrated							
12	9733	-	-	-	-	-	1	COVER - Hydraulic Lift - 268,153 & Future
	9636	-	-	-	-	1	1	COVER - Hydraulic Lift - Up to 268,153
13	2480	-	-	-	-	2	2	PLUG - Hydraulic Cover
	2481	-	-	-	-	1	1	WRENCH - 5/16 Socket Head

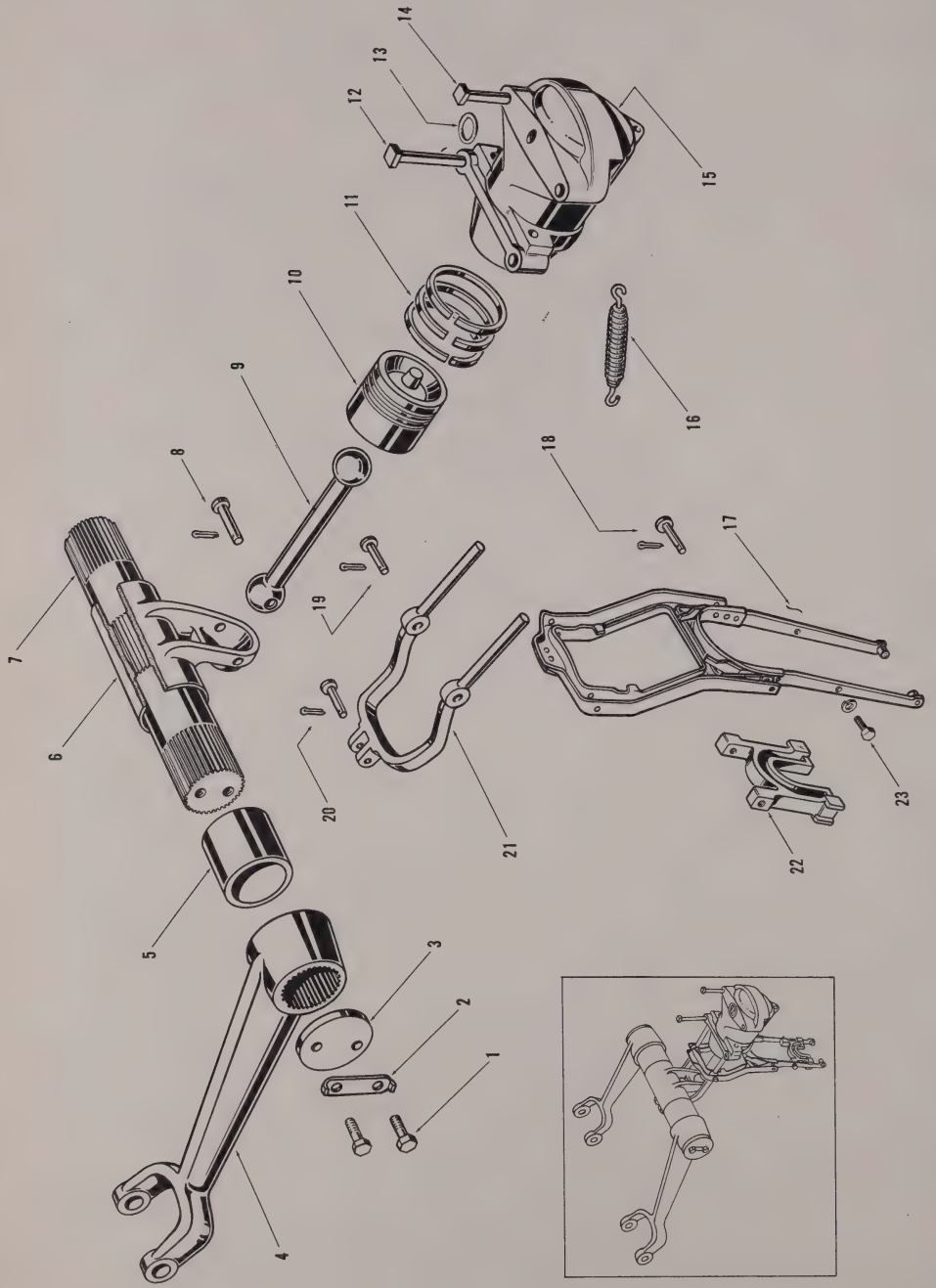

FIG. 3

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 3 HYDRAULIC LIFT SHAFT AND RELATED PARTS
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
	TO-500	-	1	-	-	-	-	LIFT ASSEMBLY - Hydraulic - Continued
	TO-500-A	1	-	-	-	-	-	LIFT ASSEMBLY - Hydraulic - Continued Not Serviced as an Assembly Composed of Items 1 thru 23 and 2 thru 25 Fig. 2
1	44-001-68	4	4	4	4	4	4	BOLT - Hex Head Lift Arm to Shaft
2	TO-550	2	2	2	2	2	2	CLIP - Locking - Lift Arm
3	TO-551	2	2	2	2	2	2	WASHER - Lift Arm
4	TO-543	2	2	2	2	2	2	ARM - Hydraulic Lift
5	TO-531	2	2	2	2	2	2	BUSHING - Lift Shaft
	TO-531-A	4	4	4	4	4	4	BUSHING - Lift Shaft
6	TO-545-A	1	1	1	1	1	1	RAM - Arm - Hydraulic Lift
7	TO-544	1	1	1	1	1	1	SHAFT - Hydraulic Lift
8	S-10211-F	1	1	1	1	1	1	PIN - Clevis - Connecting Rod to Ram Arm
	12-05-50	1	1	1	1	1	1	PIN - Cotter
9	TO-526-1	1	1	1	1	1	1	ROD - Connecting - Hydraulic Lift
10	TO-684	1	1	1	1	1	1	PISTON ASSEMBLY - Hydraulic Lift Composed of Piston not Serviced and Item 11
11	TO-533	3	3	3	3	3	3	RING - Piston - Hydraulic Lift
12	S-9776-B	2	2	2	2	2	2	BOLT - Square Head - Cylinder to Cover
	44-003	2	2	2	2	2	2	NUT - Hex
13	TO-552	-	2	2	2	2	2★	GASKET - Cylinder to Cover - Not Illustrated - Up to 268,153 for TE-A
	S-10171	1	-	-	-	-	-	O RING - Cylinder to Cover
	TO-553	-	1	1	1	1	1	GASKET - Cylinder to Cover - Not Illustrated
14	S-9776-A	2	2	2	2	2	2★	BOLT - Square Head - Cylinder to Cover - Up to 268,153 for TE-A
	44-003	2	2	2	2	2	2★	NUT - Hex - Up to 268,153 for TE-A
15	TO-510	1	1	1	1	1	1★	CYLINDER - Hydraulic Lift - Up to 268,153 for TE-A
16	TO-539	1	1	1	1	1	1	SPRING - Retracting - Lift Fork
17	TO-504-B	-	1	1	1	★	★	FORK ASSEMBLY - Hand Control
	TO-504-A	1	-	-	-	-	-	FORK ASSEMBLY - Hand Control Composed of Top and Bottom Fork and Item 18
		-	-	-	-	-	-	FORK - Top - Not Serviced Separately
		-	-	-	-	-	-	FORK - Bottom
18	TO-549	2	2	2	2	2	2	PIN - Clevis - Top Fork to Bottom Fork
	09-05-50	2	2	2	2	2	2	PIN - Cotter
19	TO-548	2	2	2	2	2	2	PIN - Clevis - Spring to Hand Control Fork
	12-05-62	2	2	2	2	2	2	PIN - Cotter
20	TO-676	1	1	1	1	1	1	PIN - Clevis - Spring Control Fork to Plunger
	12-05-75	1	1	1	1	1	1	PIN - Cotter
21	TO-540	1	1	1	1	1	1	FORK - Lift Spring Control
22	TO-687	1	-	-	-	★	★	STABILIZER - Fork
23	25-001-88	2	-	-	-	2	2	BOLT - Hex Head - Stabilizer to Fork
	25-14	2	-	-	-	2	2	WASHER - Lock
		★ TE- and TE-A Service Items - Not Illustrated						
13	104275	-	-	-	-	-	1	GASKET - Cylinder to Cover - 268,153 & Future
14	104259	-	-	-	-	-	2	BOLT - Cylinder to Cover - 268,153 & Future
	104260	-	-	-	-	-	2	NUT - Cylinder to Cover - 268,153 & Future
15	201183	-	-	-	-	-	1	CYLINDER - Hydraulic Lift - 268,153 & Future
17	7295	-	-	-	-	1	1	FORK ASSEMBLY - Hand Control - 134,000 to 200,001
	7329	-	-	-	-	-	1	FORK ASSEMBLY - Hand Control - 200,001 & Future
22	4414	-	-	-	-	1	1	STABILIZER - Fork

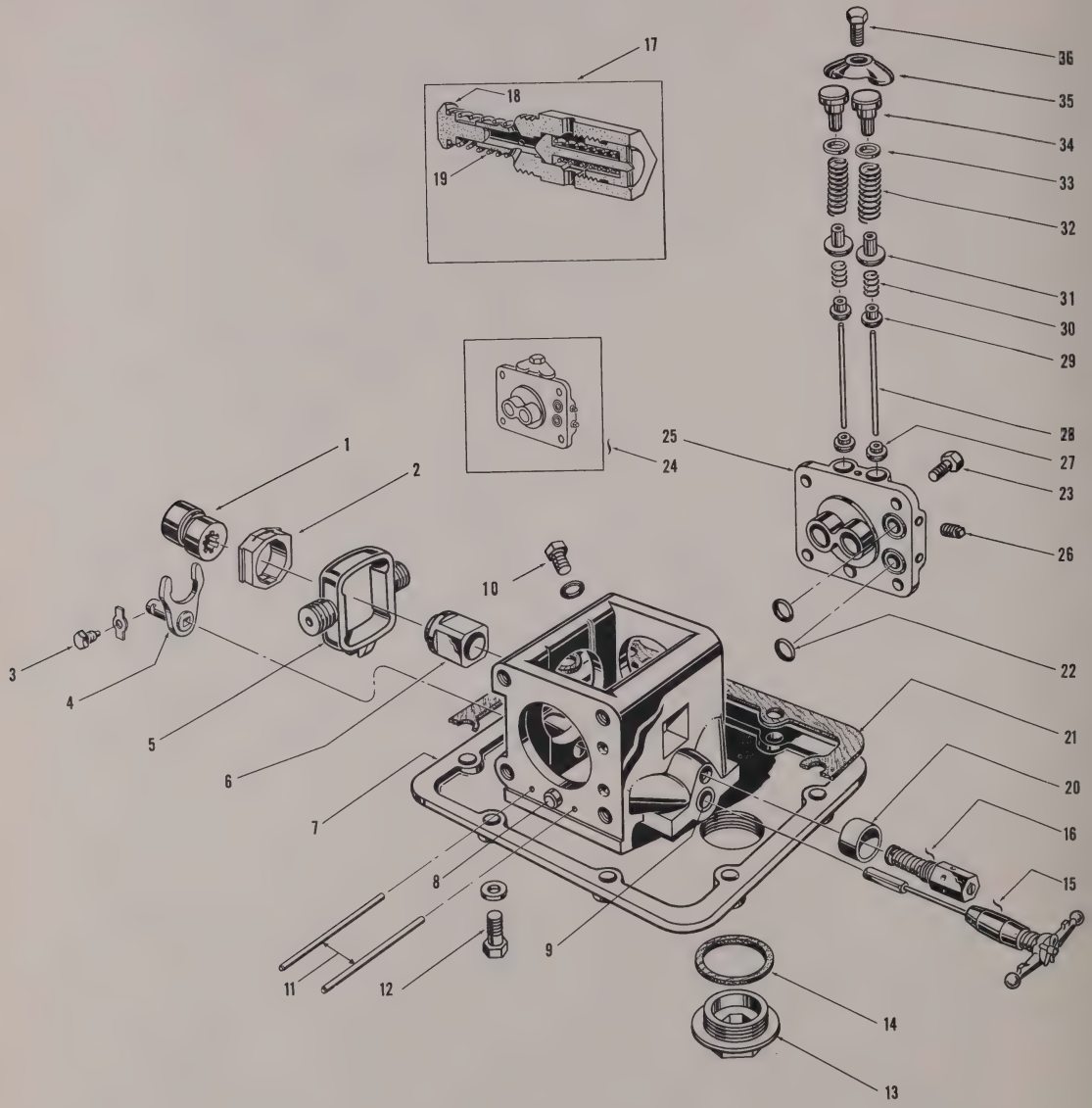
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FIG. 4

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 4 HYDRAULIC PUMP ASSEMBLY
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
	TO-699	-	1	-	1	-	-	PUMP ASSEMBLY - Hydraulic
	TO-699-A	1	-	-	-	-	★	PUMP ASSEMBLY - Hydraulic Composed of Items 1 thru 15 and 22 thru 36
1	TO-618	-	1	1	1	-	-	CAM - Hydraulic Pump
	TO-618-A	1	-	-	-	1	1	CAM - Hydraulic Pump
2	TO-612	2	2	2	2	2	2	BLOCK - Hydraulic Pump Cam
3	TO-695	1	-	-	-	1	1	WASHER - Tab
	TO-697	1	-	-	-	1	1	SCREW - Set
4	TO-688	1	-	-	-	1	1	FORK AND PIN ASSEMBLY
5	TO-615	2	2	2	2	2	2	PISTON - Hydraulic
6	TO-649	1	1	1	1	1	1	BUSHING - Hydraulic Pump
7	TO-604	-	1	1	1	1	1	BASE ASSEMBLY - Hydraulic Pump
	TO-604-A	1	-	-	-	★	★	BASE ASSEMBLY - Hydraulic Pump Composed of Base not serviced and Items 8 thru 10
8	TO-6387	2	2	2	2	2	2	DOWEL - Hydraulic Pump Base
9	TO-625	1	1	1	1	1	1	BUSHING - Hydraulic Pump Valve
10	TO-614	1	1	1	1	1	1	GASKET - Annular
	TO-620	1	1	1	1	1	1	PLUG - Base Drain
11	TO-616	2	2	-	2	2	2	STEADY - Hydraulic Pump Piston
12	44-101-175	9	9	9	9	9	9	SCREW - Cap - Pump Base to Center Housing
	44-204	9	9	9	9	9	9	WASHER - Flat
13	TO-7010	1	1	1	1	1	1	PLUG - Drain - Hydraulic Pump
14	TO-7011	1	1	1	1	1	1	GASKET - Hydraulic Pump Drain Plug
15	TO-694	1	-	-	-	1	1	VALVE ASSEMBLY - Oscillating Control
	TO-640	-	1	1	1	-	-	VALVE ASSEMBLY - Hydraulic Pump Control Composed of Valve not serviced and
	TO-632	1	1	1	1	1	1	SPRING - Control Valve
	TO-641	1	1	1	1	1	1	CLIP - Control Valve Stem
	TO-643	1	1	1	1	1	1	BAR - Control Valve Stem
	TO-642	1	1	1	1	1	1	STEM - Control Valve
	TO-691	1	-	-	-	1	1	DRIVE ASSEMBLY - Oscillator
	S-10152	1	-	-	-	★	★	RING - Internal
16	TO-638-A	1	1	-	1	1	1	VALVE ASSEMBLY - Safety (83271 & Future for TE-20) Composed of serviceable Items 18 and 19
17	TS-638-A	-	-	1	1	-	-	VALVE ASSEMBLY - Safety (Up to 83271 for TE-20) Composed of serviceable Items 18, 19
18	TO-635	1	1	1	1	1	1	VALVE - Safety Check
19	TO-645	1	1	1	1	1	1	SPRING - Safety Check Valve
	12-05-75	-	-	1	1	-	-	PIN - Cotter - Retainer Spring (Up to 83271 for TE-20)
20	TO-682	1	-	-	-	1	1	SHIELD - Safety Valve

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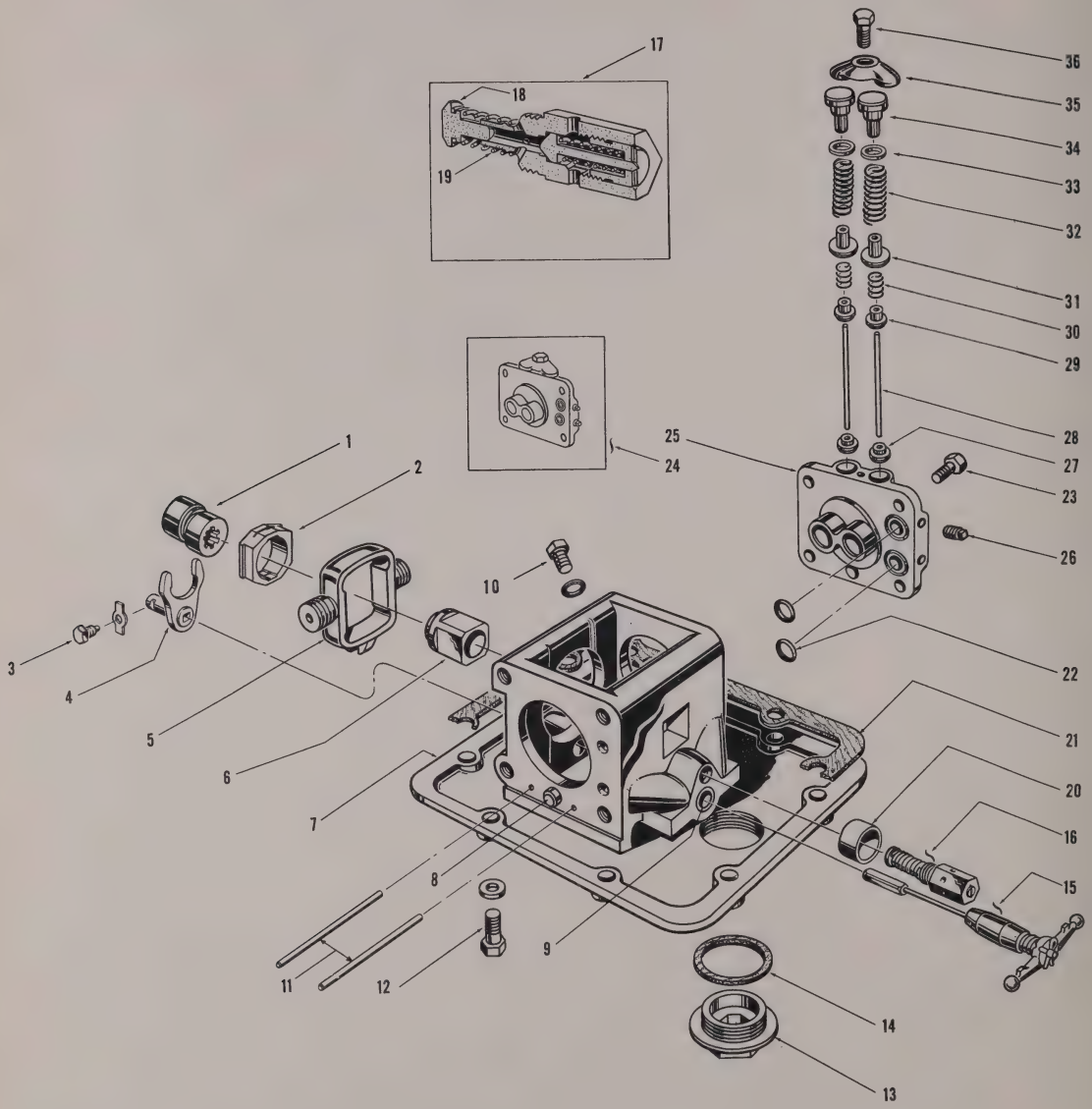
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FIG. 4

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 4 HYDRAULIC PUMP ASSEMBLY — Cont'd.
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
21	TO-611	1	1	1	1	1	1	GASKET - Hydraulic Pump Base to Center Housing
22	TO-613	-	2	2	2	2	2	GASKET - Valve Chamber - Not Illustrated - Up to 285,933 for TE-A
	S-10170	4	-	-	-	-	★	O-RING - Valve Chamber
23	44-001-125	4	-	-	-	-	-	BOLT - Hex Head - Valve Chamber to Base
	44-001-150	4	8	8	8	8	8	BOLT - Hex Head - Valve Chamber to Base
24	TO-621	-	1	1	1	1	1★	CHAMBER ASSEMBLY - Valve - R.H. Up to 285,933 for TE-A
	TO-621-A	1	-	-	-	-	-	CHAMBER ASSEMBLY - Valve - R.H.
	TO-622	-	1	1	1	1	1★	CHAMBER ASSEMBLY - Valve - L.H. Up to 285,933 for TE-A
	TO-622-A	1	-	-	-	-	-	CHAMBER ASSEMBLY - Valve - L.H.
25	TO-606	-	-	-	-	-	-	Composed of Items 25 thru 36
	TO-606-A	-	-	-	-	-	-	CHAMBER - Valve - R.H. } Not serviced separately
	TO-607	-	-	-	-	-	-	CHAMBER - Valve - R.H. } Not serviced separately
	TO-607-A	-	-	-	-	-	-	CHAMBER - Valve - L.H. } Not serviced separately
								CHAMBER - Valve - L.H. } Not serviced separately
26	S-353055	2	2	2	2	2	2	PLUG - Pipe
27	TO-627	2	2	2	2	2	2	SOCKET - Valve Guide
28	TO-626	2	2	2	★	★	★	GUIDE - Chamber Valve
29	TO-629	2	2	2	★	★	★	VALVE - Inlet
30	TO-647	2	2	2	2	2	2	SPRING - Inlet Valve
31	TO-628	2	2	2	★	★	★	VALVE - Outlet
32	TO-646	2	2	2	2	2	2	SPRING - Outlet
33	TO-664	2	2	2	2	★	★	WASHER - Outlet Valve Spring
34	TO-636	2	2	2	★	★	★	PLUG - Valve Chamber
35	TO-609	1	1	1	1	1	1	CLAMP - Valve Chamber
36	44-101-150	1	1	1	1	1	1	SCREW - Cap - Clamp to Chamber
		★ TE- And TE-A20 Service Items not Illustrated						
	8700	-	-	-	-	1	1	PUMP ASSEMBLY - Hydraulic - 134,000 to 285,933
	300952	-	-	-	-	-	1	PUMP ASSEMBLY - Hydraulic - 285,933 & Future
7	2378	-	-	-	-	1	1	BASE ASSEMBLY - Pump - 134,000 to 285,933
	105104	-	-	-	-	-	1	BASE ASSEMBLY - Pump - 285,933 & Future
15	2305	-	-	-	-	1	1	RING - Internal
23	105017	-	-	-	-	-	4	O-RING - Valve Chamber - 285,933 & Future
25	105103	-	-	-	-	-	1	CHAMBER ASSY. - R.H. - 285,933 & Future
	105102	-	-	-	-	-	1	CHAMBER ASSY. - L.H. - 285,933 & Future
28, 29, 31	2496	-	-	-	2	2	2	GUIDES AND VALVE ASSY. Composed of TE-A Parts which are similar to Items 28, 29 & 31 - Serviced in Assy. only
33	2273	-	-	-	-	2	2	RUBBER CAP
34	2482	-	-	-	-	2	2	PLUG - Valve Chamber

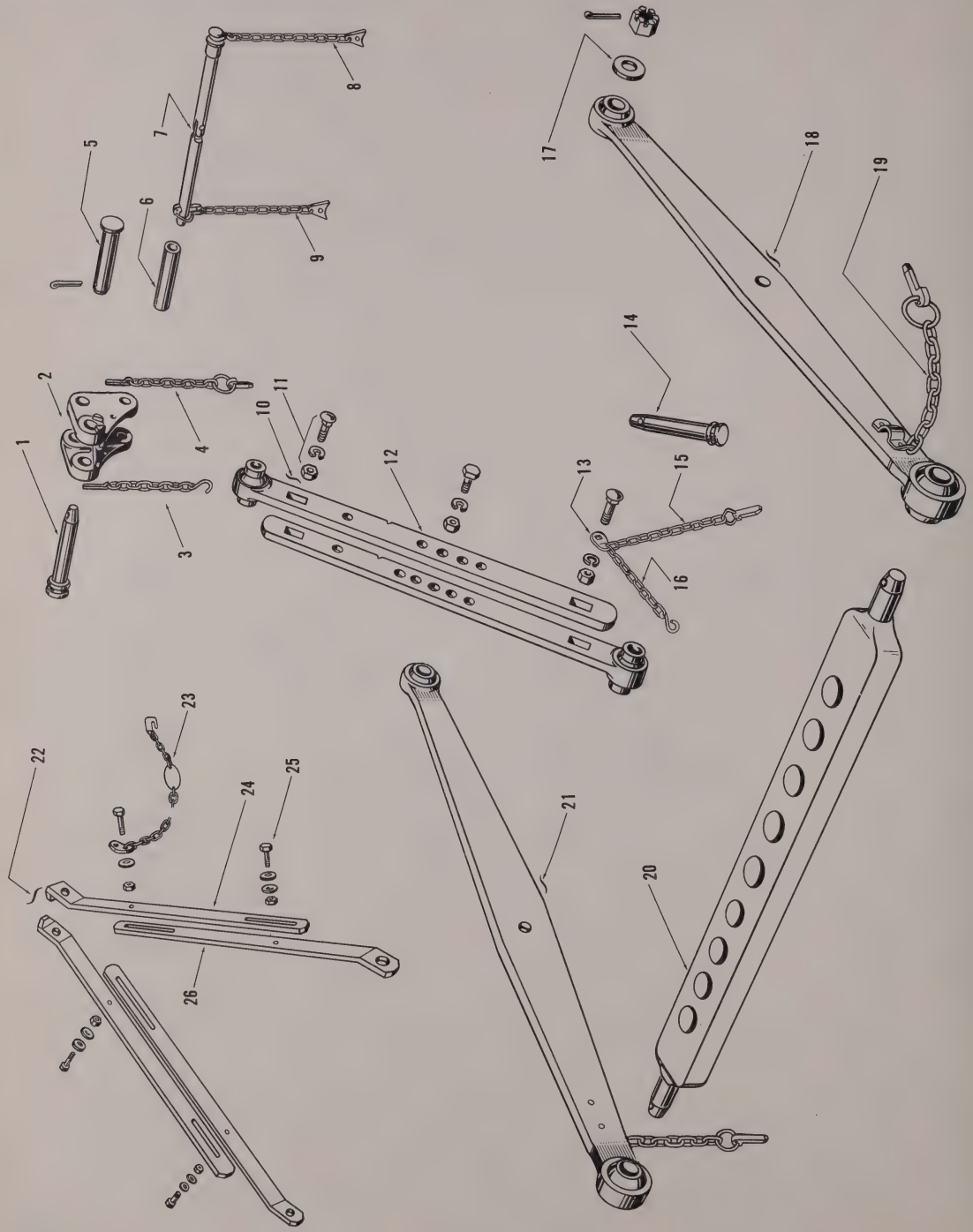

FIG. 5

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 5 UPPER AND LOWER LINKS AND RELATED PARTS
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
1	S-9551-A	1	1	1	1	1	1	PIN - Clevis-Upper Link to Rocker
2	TO-535-1	1	1	1	1	1	1	ROCKER - Hydrualic Lift
3	19-05-75	1	1	1	1	1	1	PIN - Cotter-Rocker Clevis Pin
	S-9561-D	1	1	1	1	1	1	CHAIN - 7 Links
	S-9562	1	1	1	1	1	1	EYE - Retainer Pin
4	19-05-75	1	1	1	1	1	1	PIN - Cotter - Upper Link Rocker Pin
	S-9561-D	1	1	1	1	1	1	CHAIN - 7 Links
	S-9563	1	1	1	1	1	1	RING - Locking
	S-9562	1	1	1	1	1	1	PIN - Linch
5	S-10216-B	1	1	1	1	1	1	PIN - Clevis - Rocker to Yoke
	25-05-125	1	1	1	1	1	1	PIN - Cotter
6	TO-536	1	1	-	1	1	1	BUSHING - Rocker Pin
7	TO-561	1	1	-	1	1	1	PIN ASSEMBLY - Rocker
8	S-9562	1	1	1	1	1	1	EYE - Retainer Pin
	S-9561-B	1	1	1	1	1	1	CHAIN - 11 Links
	TO-580-A	1	1	1	1	1	1	ANCHOR - Chain
9	TO-634	1	1	1	1	1	1	RETAINER ASSEMBLY ROCKER PIN Composed of
	S-9552	1	1	1	1	1	1	PIN - Linch
	S-9563	1	1	1	1	1	1	RING - Locking
	S-9561-F	1	1	1	1	1	1	CHAIN - 8 Links
	TO-580-A	1	1	1	1	1	1	ANCHOR - Chain
10	TO-576-B	1	1	1	1	1	1	LINK ASSEMBLY - Upper Composed of Items 11 thru 16
11	44-011-150	2	3	3	3	3	2	BOLT - Carriage - Link to Link - 3 Req'd. on TO-576 and TO-576-A Link; 2 Req'd. on TO-576-B Link
	44-001-138	1	-	-	-	-	1	BOLT - Hex Head - Center Hole only
	44-204	3	3	3	3	3	3	WASHER - Flat
	44-003	3	3	3	3	3	3	NUT - Hex
12	TO-666-A	2	2	2	2	2	2	LINK ASSEMBLY - Upper Half - Used for old Style only
	TO-574	1	1	1	1	1	1	LINK ASSEMBLY - R.H. Upper Half
	TO-575	1	1	1	1	1	1	LINK ASSEMBLY - L.H. Upper Half
13	S-9564-A	1	1	1	1	1	1	ANCHOR - Chain
14	S-9551-A	1	1	1	1	1	1	PIN - Clevis - Implement Attaching
15	S-9561-B	1	1	1	1	1	1	CHAIN - 11 Links
	S-9563	1	1	1	1	1	1	RING - Locking
	S-9552	1	1	1	1	1	1	PIN - Linch
16	S-9561-F	1	1	1	1	1	1	CHAIN - 8 Links
	S-9562	1	1	1	1	1	1	EYE - Retainer Pin
17	62-204	2	2	2	2	2	2	WASHER - Flat - Lower Links to Axle
	62-013	2	2	2	2	2	2	NUT - Slotted Hex
	12-05-100	2	2	2	2	2	2	PIN - Cotter
18	TO-555	1	1	1	1	1	1	LINK ASSEMBLY - Lower - R.H. Composed of Link not Serviced and Item 19
19	S-9566-A	1	1	1	1	1	1	CLIP - Retaining - Drawbar Retaining
	19-06-94	1	1	1	1	1	1	RIVET - Button Head
	S-9561-F	1	1	1	1	1	1	CHAIN - 8 Links
	S-9563	1	1	1	1	1	1	RING - Locking
	S-9552	1	1	1	1	1	1	PIN - Linch
20	TO-5182	1	1	1	1	1	1	DRAWBAR - Hydraulic Lift
21	TO-556	1	1	1	1	1	1	LINK ASSEMBLY - Lower - L.H. Composed of Link not Serviced and Item 19
22	TO-5372	-	-	-	-	-	-	STAY ASSEMBLY - Drawbar - R.H.
	TO-5373	-	-	-	-	-	-	STAY ASSEMBLY - Drawbar - L.H. Not serviced as an Assembly Composed of Items 23 thru 26
23	TO-5370	1	1	1	1	1	1	CHAIN AND WEDGE ASSEMBLY - Drawbar
24	TO-5374	2	2	2	2	2	2	STAY - Drawbar - Upper
25	44-001-125	4	4	4	4	4	4	BOLT - Hex Head - Stay Attaching
	44-204	7	7	7	7	7	7	WASHER - Flat
	44-003	4	4	4	4	4	4	NUT - Hex
26	TO-5375	2	2	2	2	2	2	STAY - Drawbar - Lower

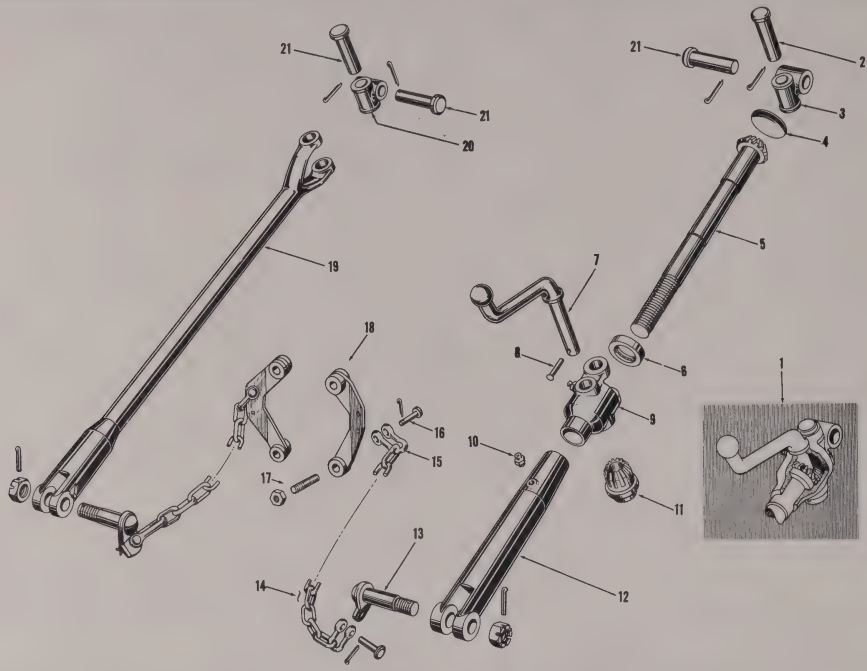

FIG. 6

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 6 LEVELING BOX ASSEMBLY AND RELATED PARTS
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
1	TO-569-A	1	1	1	1	1	1	BOX ASSEMBLY - Hydraulic Lift Leveling Composed of Items 2 thru 12
2	TO-595	1	1	1	1	1	1	PIN - Hydraulic Lift Leveling Fork
	12-05-100	1	1	1	1	1	1	PIN - Cotter
3	TO-566	1	1	1	1	1	1	KNUCKLE - Hydraulic Lift Leveling
4	S-74127	1	1	1	1	1	1	PLUG - Expansion
5	TO-579	1	1	1	1	1	1	SHAFT - Leveling Gear (w/TO-568 for TE- and TE-A-20)
6	S-9857	1	1	1	1	1	1	BEARING ASSEMBLY - Leveling Gear
7	TO-594	1	1	1	1	1	1	LEVER - Hydraulic Lift Leveling
8	S-351963	1	1	1	1	1	1	RIVET - Leveling Lever
9	TO-565	1	1	1	1	1	1	BOX - Hydraulic Lift Leveling
	25-007	1	1	1	1	1	1	FITTING - Lubrication - Shown in Position
10	25-007	1	1	1	1	1	1	FITTING - Lubrication - Leveling Fork
11	TO-568	1	1	1	1	1	1	GEAR - Leveling Lever (w/TO-579 for TE- and TE-A-20)
12	TO-585-A	1	1	1	1	1	1	FORK - Lift Rod Leveling
13	TO-577	2	2	2	2	2	2	EYEBOLT ASSEMBLY - Lift Rod Leveling
	TO-583	2	2	-	-	-	-	BUSHING - Check Chain Eyebolt
	44-013	2	2	2	2	2	2	NUT - Hex Slotted
	44-104	2	2	2	2	2	2	WASHER - Flat
	12-05-75	2	2	2	2	2	2	PIN - Cotter
14	TO-598	2	2	2	2	2	2	CHAIN ASSEMBLY - Lower Link Anchor Composed of Chain not serviced and Item 15
15	TO-582	2	2	2	2	2	2	SHACKLE - Chain
16	S-10211-G	4	4	4	4	4	4	PIN - Clevis - Anchor Chain
	12-05-50	4	4	4	4	4	4	PIN - Cotter
17	TO-707	-	4	4	4	4	4	SCREW - Cap - Anchor to Center Housing - Not Illustrated
	44-0132-188	4	-	-	-	-	-	STUD - Anchor to Center Housing
	44-003	4	-	-	-	-	-	NUT - Hex
18	TO-596-A	2	2	2	2	2	2	ANCHOR - Lower Link Check Chain (w/Stud for TO-20, TE- and TE-A20)
19	TO-564	1	1	1	1	1	1	ROD - Hydraulic Lift Leveling - L.H.
20	TO-566	1	1	1	1	1	1	KNUCKLE - Hydraulic Lift Leveling
21	TO-595	3	3	3	3	3	3	PIN - Hydraulic Lift Leveling Fork
	12-05-100	3	3	3	3	3	3	PIN - Cotter

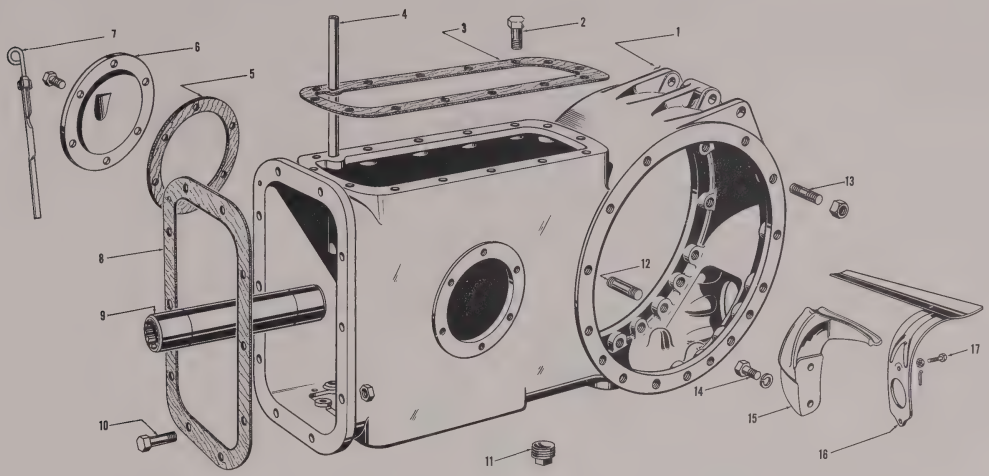

FIG. 7

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 7 CENTER HOUSING AND RELATED PARTS
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
1	TO-4025	-	1	1	1	1	1	HOUSING ASSEMBLY - Center
	TO-4025-A	1	-	-	-	-	-	HOUSING ASSEMBLY - Center Composed of Housing not serviced and Item 4
2	44-101-162	7	7	7	7	7	7	SCREW - Cap - Lift Cover to Center Housing
	44-101-250	3	3	3	3	3	3	SCREW - Cap
	44-101-350	4	4	4	4	4	4	SCREW - Cap
3	TO-502	1	1	1	1	1	1	GASKET - Hydraulic Lift Cover
4	TO-567	2	2	2	2	2	2	TUBE - Oil - Center Housing
5	TO-4131	2	2	2	2	2	2	GASKET - Center Housing Side Cover
6	TO-7158	1	1	1	1	1	1	COVER ASSEMBLY - Oil Level Indicator
	44-101-75	5	5	5	5	5	5	SCREW - Cap - Cover to Center Housing
	44-101-125	1	1	1	1	1	1	SCREW - Cap - Step Bracket and Cover to Center Housing
7	TO-7137	1	1	-	1	1	1	INDICATOR - Oil Level
8	TO-4662	1	1	1	1	1	★	GASKET - Center Housing to Trans. Case
9	TO-4605	1	1	1	1	1	1	SHAFT ASSEMBLY - Drive
10	44-001-138	8	8	8	8	8	8	BOLT - Hex Head - Center Housing to Trans. Case
	44-003	8	8	8	8	8	8	NUT - Hex
11	S-353051	1	1	-	1	1	1	PLUG - Pipe - Center Housing Drain
12	44-0132-188	1	1	-	1	1	1	STUD - Muffler Clip to Rear Axle and Center Housing
13	44-0132-162	29	21	-	21	21	21	STUD - Rear Axle Housing to Center Housing
	44-003	30	22	-	22	22	22	NUT - Hex
14	38-101-88	2	2	-	2	2	2	SCREW - Cap - Thrust Block to Axle Housing
	38-14	2	2	-	2	2	2	WASHER - Lock
15	TO-4195-A	-	1	-	★	★	★	BLOCK - Thrust - Driving Gear
	TO-4195-B	1	-	-	-	-	-	BLOCK - Thrust - Driving Gear
16	TO-4150	-	1	1	1	1	1	TROUGH ASSEMBLY - Differential Bearing
	TO-4150-A	1	-	-	-	-	-	TROUGH ASSEMBLY - Differential Bearing
17	25-8001-138	2	2	-	2	2	2	BOLT - Hex Head - Trough to Center Housing
	25-013	2	2	-	2	2	2	NUT - Slotted
	06-05-38	2	2	-	2	2	2	PIN - Cotter
	★ TE-20 and TE-A20 Service Items - Not Illustrated							
8	7324	-	-	-	-	-	1	GASKET - Center Housing to Transmission Housing - 200,001 & Future
15	7015	-	-	-	1	1	1	BLOCK - Thrust - Driving Gear

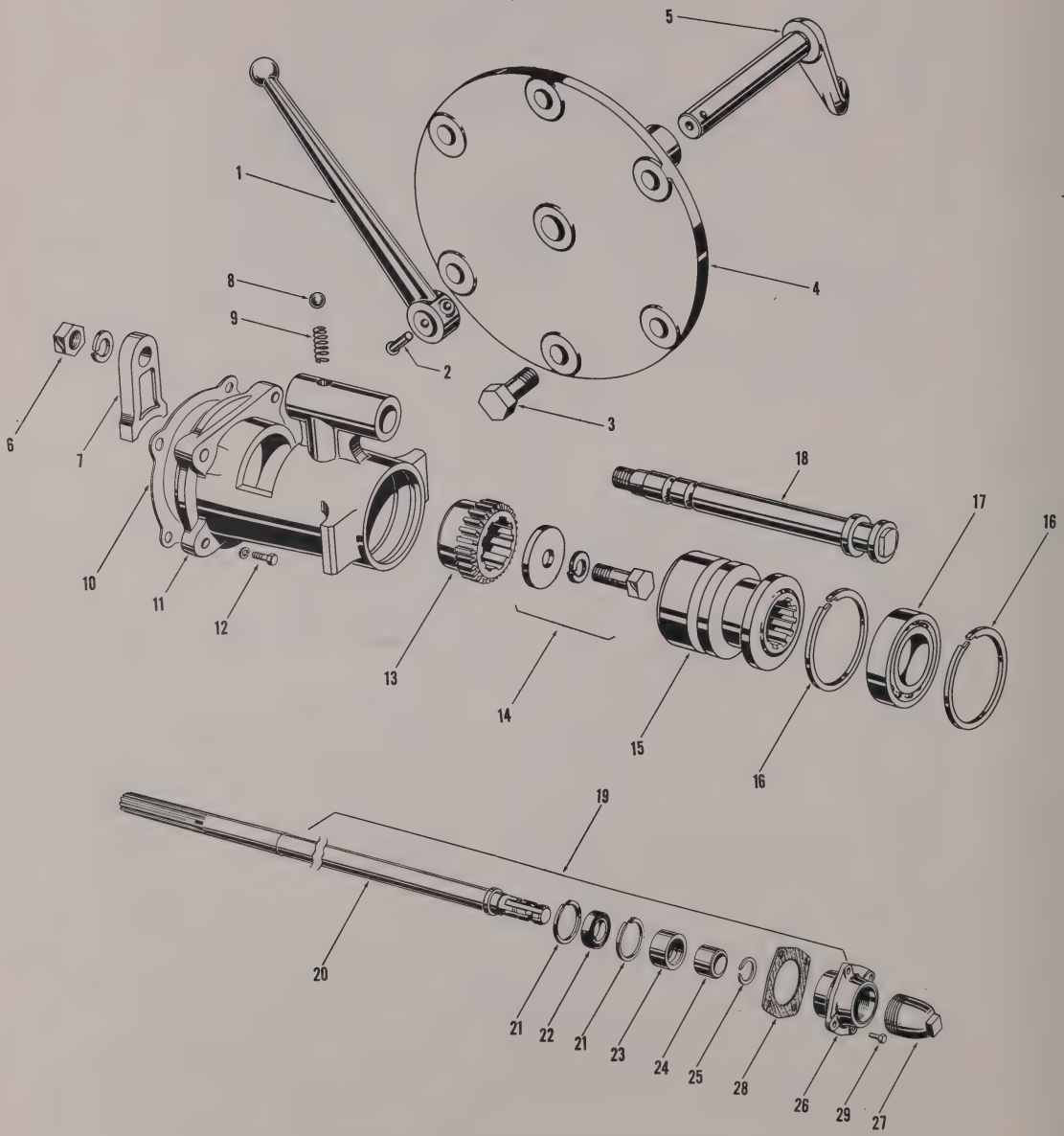
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FIG. 8

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 8 P.T.O. SHIFTER LEVER, FORK, SHAFT AND RELATED PARTS
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
1	TO-723	1	1	1	1	1	1	LEVER - Power Take-Off Shifter
2	25-06-138	1	1	-	1	1	1	RIVET - Button Head - Lever to Fork
3	44-101-75	5	5	-	5	5	5	SCREW - Cap - Cover to Center Housing
	44-101-125	1	1	-	1	1	1	SCREW - Cap - Step Assy. and Cover to Center Housing
4	TO-721	1	1	-	1	1	1	COVER - Power Take-Off Shifter
5	TO-720	1	1	1	1	1	1	FORK - Power Take-Off Shifter
6	38-003	1	1	1	1	1	1	NUT - Hex - P.T.O. Shifter Rail
	38-14	1	1	1	1	1	1	WASHER - Lock
7	TO-722	1	1	1	1	1	1	STOP - P.T.O. Shifter Rail (w/TO-719 for TE & TE-A20)
8	S-353075	1	1	1	1	1	1	BALL - Lock - Shifter Rail
9	TO-7234	1	1	1	1	1	1	SPRING - Shifter Rail Lock Ball
10	TO-7135-A	As Req.	As Req.	As Req.	As Req.	As Req.	As Req.	SHIM - .003 Thick - Support to Trans. Case
	TO-7135-F	As Req.	As Req.	As Req.	As Req.	As Req.	As Req.	SHIM - .005 Thick
	TO-7135-G	As Req.	As Req.	As Req.	As Req.	As Req.	As Req.	SHIM - .012 Thick
	TO-7135-H	As Req.	As Req.	As Req.	As Req.	As Req.	As Req.	SHIM - .025 Thick
11	TO-708	-	1	1	1	1	1	RETAINER ASSEMBLY - P.T.O. Support - Up to 285, 932 for TE-A
	TO-708-A	1	-	-	-	-	1	RETAINER ASSEMBLY - P.T.O. Support - 285,932 & future for TE-A Composed of retainer not serviced and
	S-9835	1	1	1	1	1	1	CUP - Bearing - Pressed in place
12	38-101-112	4	4	4	4	4	4	SCREW - Cap - Retainer to Trans. Case
	38-14	4	4	4	4	4	4	WASHER - Lock
13	TO-716	1	1	-	1	1	1	HUB - Clutch - Power Take-Off
14	38-001-100	1	1	1	1	1	1	BOLT - Hex Head - Clutch Hub to Countershaft
	38-14	1	1	1	1	1	1	WASHER - Lock
	S-351406	1	1	1	1	1	1	WASHER - Special
15	TO-717	1	1	-	1	1	1	SLEEVE - Clutch - Power Take-Off
16	TO-754	2	2	2	2	2	2	RING - Snap - Bearing Retainer
17	S-9852	1	1	1	1	1	1	BEARING ASSEMBLY - P.T.O. Shaft
18	TO-719	1	1	1	1	1	1	RAIL - Power Take-Off Shifter (w/TO-722 for TE & TE-A20)
19	TO-700-A	1	1	1	1	★	★	POWER TAKE-OFF ASSEMBLY Composed of Items 20 thru 27
20	TO-710-A	1	1	-	1	★	★	SHAFT ASSEMBLY - P.T.O.
21	TO-754	2	2	2	2	2	2	RING - Snap - Power Take-Off Bearing
22	S-9852	1	1	1	1	1	1	BEARING ASSEMBLY - Power Take-Off
23	S-9912	1	1	1	1	1	1	SEAL - Oil - Power Take-Off
24	TO-735	1	1	-	1	1	1	SLEEVE - Power Take-Off
25	TO-757	1	1	-	1	1	1	RING - Snap - Power Take-Off Shaft
26	TO-733	1	1	1	1	1	1	COVER - Power Take-Off
27	TO-726	1	1	1	1	1	1	CAP - Power Take-Off
28	TO-4129	1	1	1	1	1	4	GASKET - Power Take-Off Cover
29	44-101-100	4	4	4	4	4	4	SCREW - Cap - Cover to Center Housing

★TE & TE-A20 Service Items - Not Illustrated

19	7058	-	-	-	-	1	1	POWER TAKE-OFF ASSEMBLY - Not serviced - Order details and 7009 Composed of Items 21 thru 27 which are interchangeable &
20	7009	-	-	-	-	1	1	SHAFT ASSEMBLY - P.T.O. - 134,000 & future

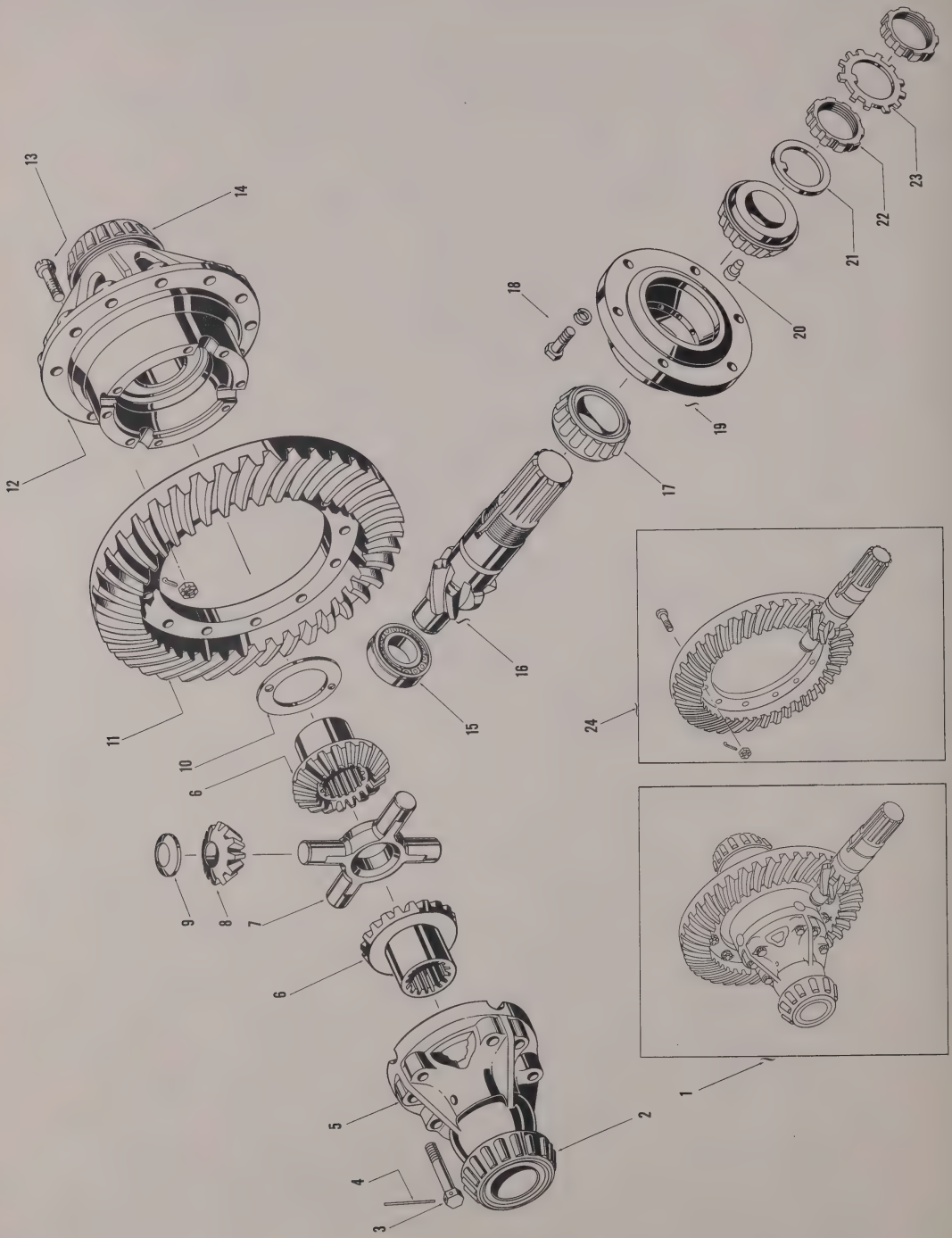

FIG. 9

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 9 DIFFERENTIAL ASSEMBLY
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
1	TO-4217	-	1	1	1	1	1	GEAR, CASE AND PINION ASSEMBLY - Drive Composed of Items 2 thru 14 and 16
	TO-4203	1	-	-	-	-	-	GEAR, CASE AND PINION ASSEMBLY - Drive Composed of Items 2 thru 14, 16, 17 and 19 thru 23
2	S-9825	1	1	1	1	1	1	CONE AND ROLLER ASSEMBLY
3	TO-4216	-	8	8	8	8	8	SCREW - Differential Gear Case
	TO-4216-A	8	-	-	-	-	-	SCREW - Differential Gear Case
4	TO-4208-A	-	-	-	-	-	-	WIRE - Locking - Purchase Locally
5	TO-4206	-	-	-	-	-	-	CASE - Differential Gear - R.H. Order TO-4217 or TO-4219
	TO-4206-A	-	-	-	-	-	-	CASE - Differential Gear - R.H. Order TO-4203 or TO-4219-A
6	TO-4236	-	2	2	2	2	2	GEAR - Differential
	TO-4236-A	2	-	-	-	-	-	GEAR - Differential
7	TO-4211	-	1	1	1	1	1	SPIDER - Differential
	TO-4211-A	1	-	-	-	-	-	SPIDER - Differential
8	TO-4215	-	4	4	4	4	4	PINION - Differential
	TO-4215-A	4	-	-	-	-	-	PINION - Differential
9	TO-4230	-	4	4	4	4	4	WASHER - Thrust - Differential
	TO-4230-A	4	-	-	-	-	-	WASHER - Thrust - Differential
10	TO-4228	-	2	2	2	2	2	WASHER - Thrust - Differential
	TO-4228-A	2	-	-	-	-	-	WASHER - Thrust - Differential
11	TO-4210	-	-	-	-	-	-	GEAR - Driving - Order TO-4217 or TO-4218
	TO-4210-A	-	-	-	-	-	-	GEAR - Driving - Order TO-4203 or TO-4218-A
12	TO-4205	-	-	-	-	-	-	CASE - Differential Gear - L.H. Order TO-4217 or TO-4219
	TO-4205-A	-	-	-	-	-	-	CASE - Differential Gear - L.H. Order TO-4203 or TO-4219-A
13	TO-4209-A	-	12	-	12	12	12	BOLT - Driving Gear to Case
	TO-4209-C	12	-	-	-	-	-	BOLT - Driving Gear to Case
	50-013	12	12	-	12	12	12	NUT - Slotted
	12-05-112	12	12	-	12	12	12	PIN - Cotter
14	S-9825	1	1	1	1	1	1	CONE AND ROLLER ASSEMBLY
15	S-9851	-	1	1	1	1	1	BEARING ASSEMBLY - Driving Pinion Pilot
	S-9881	1	-	-	-	-	-	BEARING ASSEMBLY - Driving Pinion Pilot
16	TO-4609	-	-	-	-	-	-	PINION ASSEMBLY - Driving - Order TO-4217 or TO-4218 Composed of Pinion not serviced and
	TO-4626-A	-	1	1	1	1	1	RACE - Driving Pinion Bearing - Not Illustrated
	TO-4627	-	1	1	1	1	1	RING - Locking - Bearing Race - Not Illustrated
	TO-4610-A	-	-	-	-	-	-	PINION ASSEMBLY - Driving - Order TO-4203 or or TO-4218-A
17	S-9832	2	2	2	2	2	2	CONE AND ROLLER ASSEMBLY
18	TO-4641	6	6	6	6	6	6	SCREW - Hex Head - Sleeve to Center Housing
	S-34810	6	6	6	6	6	6	WASHER - Lock
19	TO-4614	-	1	1	1	1	1	SLEEVE ASSEMBLY - Driving Pinion Bearing Composed of Item 20 and
	S-9831	-	2	2	2	2	2	CUP - Bearing - Not Illustrated
	TO-4614-A	1	-	-	-	-	-	SLEEVE ASSEMBLY - Driving Pinion Bearing Composed of Sleeve and Cup not serviced and Item 20
20	TO-4256	1	1	1	1	1	1	PIN - Lock - Pinion Bearing Nut
21	TO-4667	1	1	1	1	1	1	WASHER - Thrust - Pinion Bearing
22	TO-4634	2	2	-	2	2	2	NUT - Lock - Pinion Bearing
23	TO-4636	1	1	-	1	1	1	WASHER - Special Pinion Bearing
24	TO-4218	-	1	-	1	1	1	GEAR AND PINION ASSEMBLY - Drive
	TO-4218-A	1	-	-	-	-	-	GEAR AND PINION ASSEMBLY - Drive Composed of Items 11, 13 and 16
	TO-4219	-	1	1	1	1	1	DIFFERENTIAL CASE ASSEMBLY - Not Illustrated
	TO-4219-A	1	-	-	-	-	-	DIFFERENTIAL CASE ASSEMBLY - Not Illustrated Composed of Items 3, 5 and 12

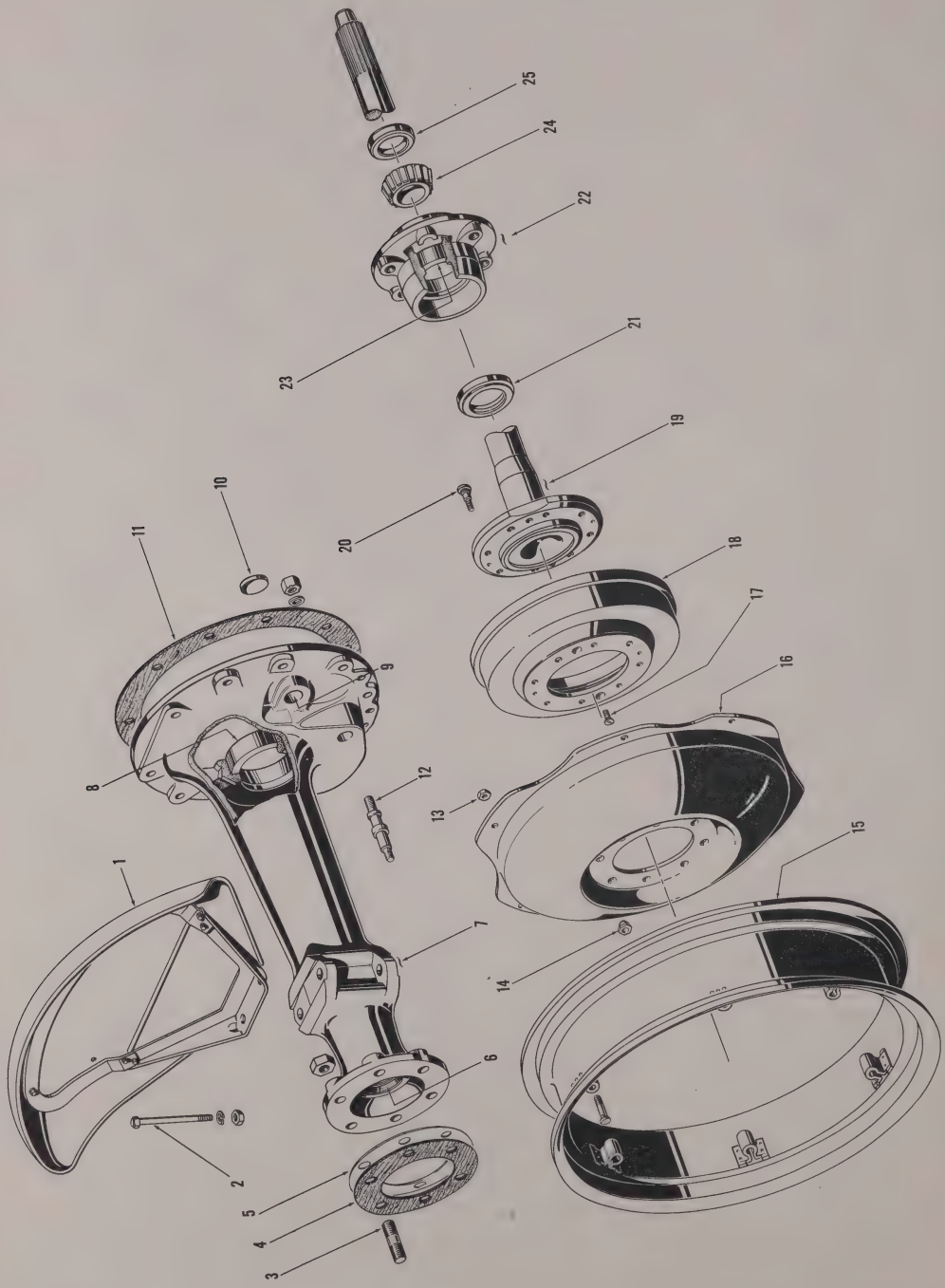

FIG. 10

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	FIG. 10 REAR AXLE HOUSING, WHEEL AND RELATED PARTS
1	TO-16312	2	2	2	2	2	2	FENDER ASSEMBLY - Rear
2	62-001-612	4	4	4	4	4	4	BOLT - Hex Head - Fender to Axle Housing
	62-14	4	4	4	4	4	4	WASHER - Lock
	62-003	4	4	4	4	4	4	NUT - Hex
3	TO-4135	12	12	12	12	12	12	STUD - Rear Axle
	44-14	12	12	12	12	12	12	WASHER - Lock
	44-003	12	12	12	12	12	12	NUT - Hex
4	TO-4130	4	4	4	4	4	4	GASKET - Rear Axle Housing - Outer
5	TO-4229-A	As Req.	As Req.	As Req.	As Req.	As Req.	As Req.	SHIM - .003 - .005 Thick - Rear Axle Retainer
	TO-4229-B	As Req.	As Req.	As Req.	As Req.	As Req.	As Req.	SHIM - .015 - .017 Thick
	TO-4229-C	As Req.	As Req.	As Req.	As Req.	As Req.	As Req.	SHIM - .020 - .022 Thick
6	S-9906	2	-	-	-	-	-	SEAL - Oil Rear Axle - Inner - Shown in Position - Alternate of S-9918
	S-9918	2	-	-	-	-	-	SEAL - Oil Rear Axle - Inner - Shown in Position - Alternate of S-9906
7	TO-4012-A	-	1	-	★	★	★	HOUSING ASSEMBLY - Rear Axle - R.H.
	TO-4012-B	1	-	-	-	-	-	HOUSING ASSEMBLY - Rear Axle - R.H.
	TO-4013-A	-	1	-	★	★	★	HOUSING ASSEMBLY - Rear Axle - L.H.
	TO-4013-B	1	-	-	-	-	-	HOUSING ASSEMBLY - Rear Axle - L.H. Composed of Housing not serviced and Items 8 thru 10
8	S-9826	1	1	1	1	1	1	CUP - Rear Axle Housing Bearing
9	TO-2477-A	1	1	1	★	★	★	BUSHING - Brake Cross Shaft
10	S-74121	1	1	1	1	1	1	PLUG - Expansion
11	TO-4035	-	2	2	2	2	2	GASKET - Rear Axle to Center Housing
	TO-4035-A	2	-	-	-	-	-	GASKET - Rear Axle to Center Housing
12	TO-563-A	2	2	-	★	★	★	SHAFT - Lower Link Support
	62-204	2	2	2	2	2	2	WASHER - Flat - Lower Link to Support Shaft
	S-9770-F	2	2	-	★	★	★	NUT - Elastic Stop
13	62-001-100	-	12	-	★	★	★	BOLT - Hex Head Up to 16979 - Rim to Wheel Disc
	TO-1175	12	12	-	★	★	★	BOLT - 16979 & Future
	62-003	12	12	-	12	12	12	NUT - Hex
14	TO-1114	16	16	-	16	16	16	NUT - Rear Wheel Disc
15	TO-1108-B	2	2	-	2	2	2	RIM ASSEMBLY - Rear Wheel (w/TO-1122 for TE and TE-A20)
16	TO-1122	2	2	-	2	2	2	DISC - Rear Wheel
17	TO-1127	4	4	-	4	4	4	SCREW - Brake Drum to Rear Axle Shaft
18	TO-1126-B	2	2	-	★	★	★	DRUM - Brake
19	TO-4234-A	-	2	-	★	★	★	SHAFT ASSEMBLY - Rear Axle
	TO-4234-B	2	-	-	-	-	-	SHAFT ASSEMBLY - Rear Axle Composed of Shaft not serviced and Item 20
20	TO-1115	16	16	-	★	★	★	BOLT - Rear Wheel Disc
21	S-9908	2	2	-	2	2	2	SEAL - Oil - Rear Axle Shaft Retainer
22	TO-4124-A	-	2	-	2	2	2	RETAINER ASSEMBLY - Rear Axle
	TO-4124-B	2	-	-	-	-	-	RETAINER ASSEMBLY - Rear Axle Composed of Retainer not serviced and Item 23
	TO-4260	-	1	-	-	-	-	SHIELD - Oil - Rear Axle Retainer - Not Illustrated
23	S-9829	1	1	1	1	1	1	CUP - Rear Axle Retainer Bearing
24	S-9828	2	2	2	2	2	2	CONE AND ROLLER - Rear Axle, Retainer
25	TO-4132	2	2	2	2	2	2	COLLAR - Rear Axle Shaft
	TO-1710	2	2	-	-	-	-	SLEEVE - Tire Mounting - Long - Not Illustrated
	TO-1710-A	2	2	-	2	2	2	SLEEVE - Tire Mounting - Short - Not Illustrated
		★TE - and TE-A20 Service Items - Not Illustrated						
7	9512	-	-	-	1	1	1	HOUSING ASSEMBLY - Rear Axle - L.H.
	9514	-	-	-	1	1	1	HOUSING ASSEMBLY - Rear Axle - R.H.
9	1289	-	-	-	2	2	2	BUSHING - Brake Cross Shaft
12	1025	-	-	-	2	2	2	SHAFT - Lower Link Support
	62-013	-	-	-	2	2	2	NUT - Lower Support Shaft
	1011	-	-	-	2	2	2	GASKET - Lower Link Support Plate
	1024	-	-	-	2	2	2	PLATE - Lower Link Support
	1145	-	-	-	2	2	2	STUD - Lower Link Support Plate
13	1385	-	-	-	12	12	12	BOLT - Disc to Rim
18	8648	-	-	-	2	2	2	DRUM ASSEMBLY - Brake
19	8666	-	-	-	2	2	2	SHAFT ASSEMBLY - Rear Axle
20	1187	-	-	-	16	16	16	BOLT - Rear Wheel Disc

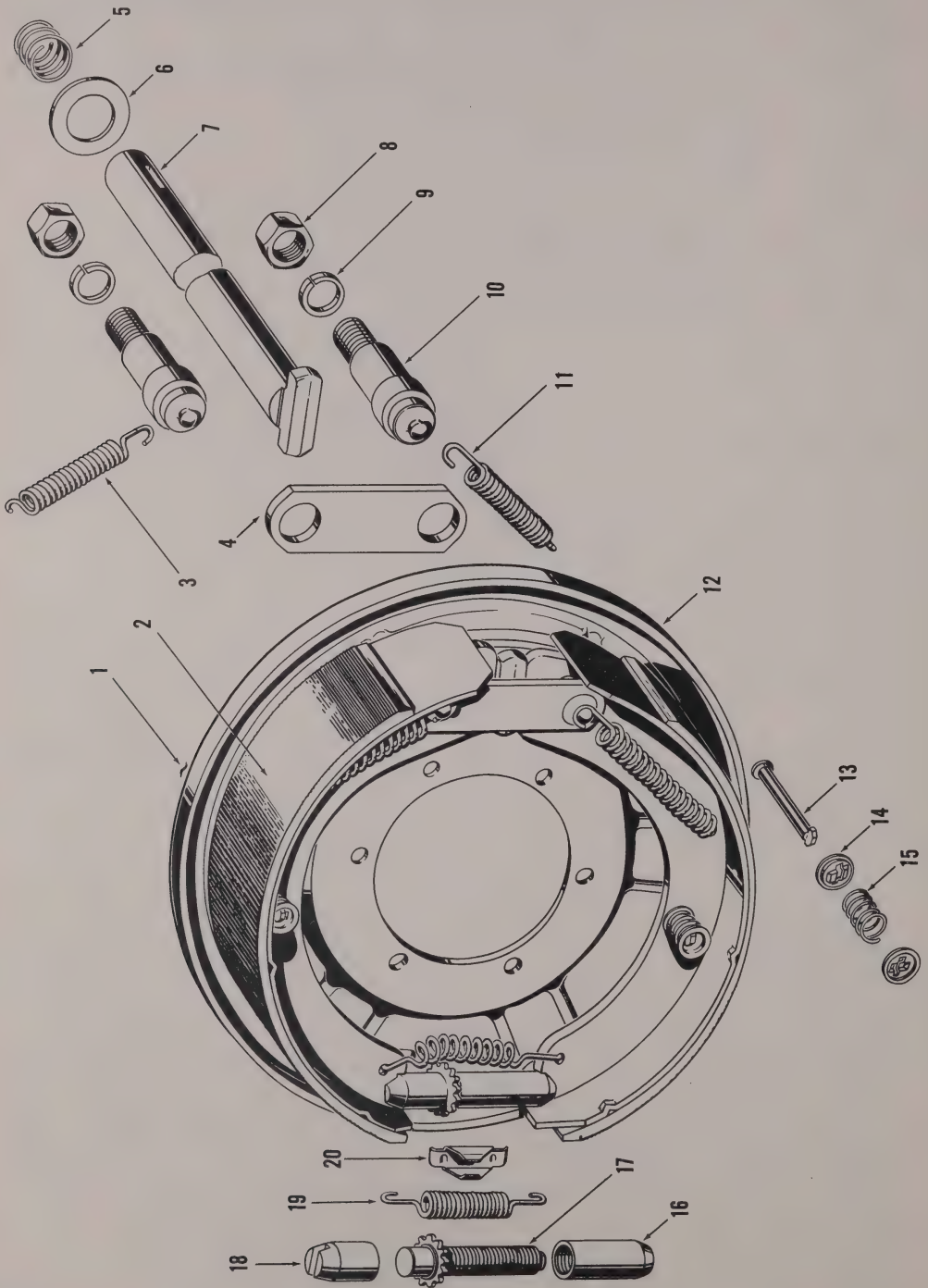

FIG. 11

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	85MM	FIG. 11 BRAKE ASSEMBLY
1	TO-2225	2	2	-	★	★	★	BRAKE ASSEMBLY Composed of Items 2, 8 thru 10 and 12 thru 20
2	TO-2100	1	1	-	★	★	★	SHOE AND LINING KIT - Set of Four
	TO-2100-A	1	1	-	-	-	-	SHOE AND LINING KIT - .030 O.S. Set of Four
3	TO-2034	1	1	-	★	★	★	SPRING - Brake Shoe Top - Black
4	TO-2063	1	1	-	★	★	★	BRACE - Anchor Pin
5	TO-2245	1	1	-	-	-	-	SPRING - Brake Shaft Cover Washer
6	TO-2246	1	1	-	-	-	-	WASHER - Brake Shaft Cover
7	TO-2247	1	1	-	★	★	★	SHAFT - Brake
8	TO-2062	2	2	-	★	★	★	NUT - Hex - Anchor Pin
9	TO-2065	2	2	-	★	★	★	WASHER - Lock - Anchor Pin
10	TO-2104	2	2	-	★	★	★	PIN - Brake Anchor
11	TO-2036	1	1	-	★	★	★	SPRING - Brake Shoe Bottom - Blue
12	TO-2212	1	1	-	★	★	★	PLATE ASSEMBLY - Backing - Includes Seal
	TO-2218	1	-	-	-	-	-	BRAKE DUST SEAL AND CEMENT - Service Combination
13	TO-2069	2	2	-	-	-	-	PIN - Brake Shoe Hold Down Spring
14	TO-2071	4	4	-	★	★	★	CUP - Brake Shoe Hold Down Spring
15	TO-2068	2	2	-	★	★	★	SPRING - Brake Shoe Hold Down
16	TO-2087	1	1	-	★	★	★	NUT - Brake Adjusting Screw
17	TO-2038	1	1	-	★	★	★	SCREW - Brake Adjusting
18	TO-2042	1	1	-	★	★	★	SOCKET - Brake Adjusting Screw
19	TO-2035	1	1	-	★	★	★	SPRING - Brake Shoe Return - Rear - Red
20	TO-2244	1	1	-	★	★	★	COVER - Hole Adjusting Screw

★TE and TE-A20 Service Items - Not Illustrated

NOTE: The following Service Items are for Tractors up to Serial 200,001. For Tractors Serial 200,001 and Future which took effect in 1951, See Fig. 45 Page 125. Quantities shown in Quantity Required Column are for one Brake Assembly only.

1	9526	-	-	-	1	1	1	BRAKE ASSEMBLY - R.H.
	9525	-	-	-	1	1	1	BRAKE ASSEMBLY - L.H.
2	7118	-	-	-	1	1	1	SHOE AND LINING KIT - Pair
3	1544	-	-	-	1	1	1	SPRING - Primary - Secondary
4	1527	-	-	-	1	1	1	BRACE - Anchor Pin
7	4186	-	-	-	1	1	1	SHAFT AND CRANK ASSEMBLY - Brake
	1530	-	-	-	1	1	1	PLATE AND BLOCK ASSEMBLY - Brake Cam
	TS-2229	-	-	-	1	1	1	SPRING - Crank Lever Return
	1535	-	-	-	1	1	1	COLLAR - Brake Shaft
	1536	-	-	-	1	1	1	SCREW - Set - Brake Shaft Collar

Continued on Page 23

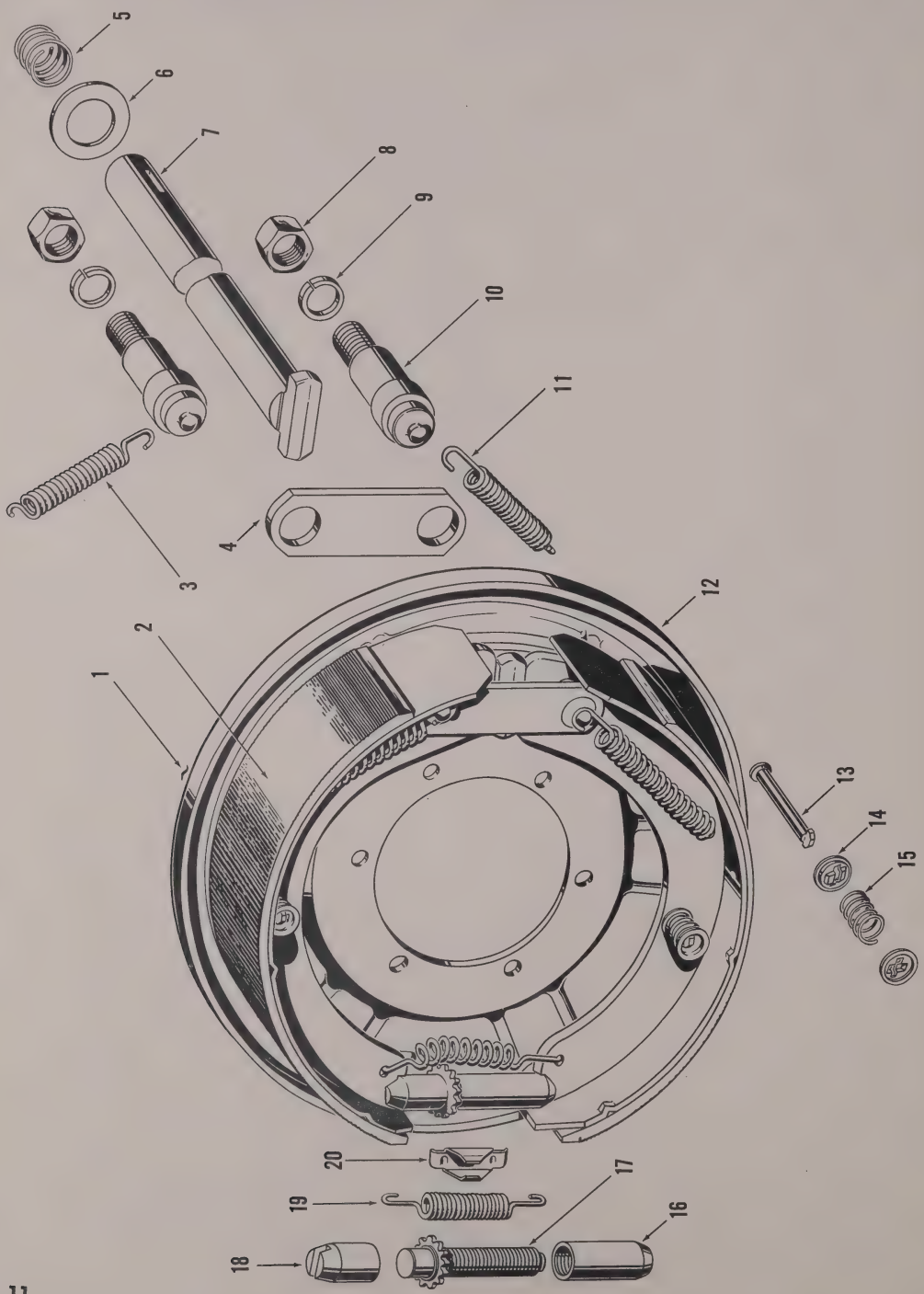

FIG. 11

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 11 BRAKE ASSEMBLY —Cont'd.
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
8	TS-2256	-	-	-	2	2	2	NUT - Hex - Anchor Pin
9	1525	-	-	-	2	2	2	WASHER - Lock Anchor Pin
10	4183	-	-	-	1	1	1	PIN AND PLATE ASSEMBLY - Anchor
	4187	-	-	-	1	1	1	BEARING - Control Shaft
11	1544	-	-	-	1	1	1	SPRING - Primary - Secondary
12	8579	-	-	-	1	1	1	PLATE - Backing - R.H.
	8578	-	-	-	1	1	1	PLATE - Backing - L.H.
14	1999	-	-	-	2	2	2	NUT - Spacer Pin Hold Down
	1542	-	-	-	2	2	2	WASHER - Spacer Pin Hold Down
	1519	-	-	-	1	1	1	ADJUSTER ASSEMBLY - Screw Composed of Items 16, 17 and 18
16	1521	-	-	-	1	1	1	SCREW - Adjuster - L.H.
17	1520	-	-	-	1	1	1	PINION - Adjuster Screw
18	1522	-	-	-	1	1	1	SCREW - Adjuster - R.H.
19	TS-2224	-	-	-	1	1	1	SPRING - Brake Shoe Adjuster
20	1537	-	-	-	1	1	1	WHEEL - Crown
	1538	-	-	-	1	1	1	BALL - Crown Wheel
	1539	-	-	-	1	1	1	RETAINER - Crown Wheel Ball
	1540	-	-	-	1	1	1	WASHER - Lock - Crown Wheel
	1541	-	-	-	1	1	1	RING - Lock - Crown Wheel
	TS-2234	-	-	-	4	4	4	NUT - Back Plate to Steady Post
	1528	-	-	-	4	4	4	POST - Back Plate Steady
	1531	-	-	-	1	1	1	BOLT - Centralizer
	1532	-	-	-	2	2	2	WASHER - Centralizer
	38-14	-	-	-	2	2	2	WASHER - Lock
	38-003	-	-	-	1	1	1	NUT - Centralizer Bolt
	4185	-	-	-	1	1	1	CENTRALIZER - L.H.
	4184	-	-	-	1	1	1	CENTRALIZER - R.H.

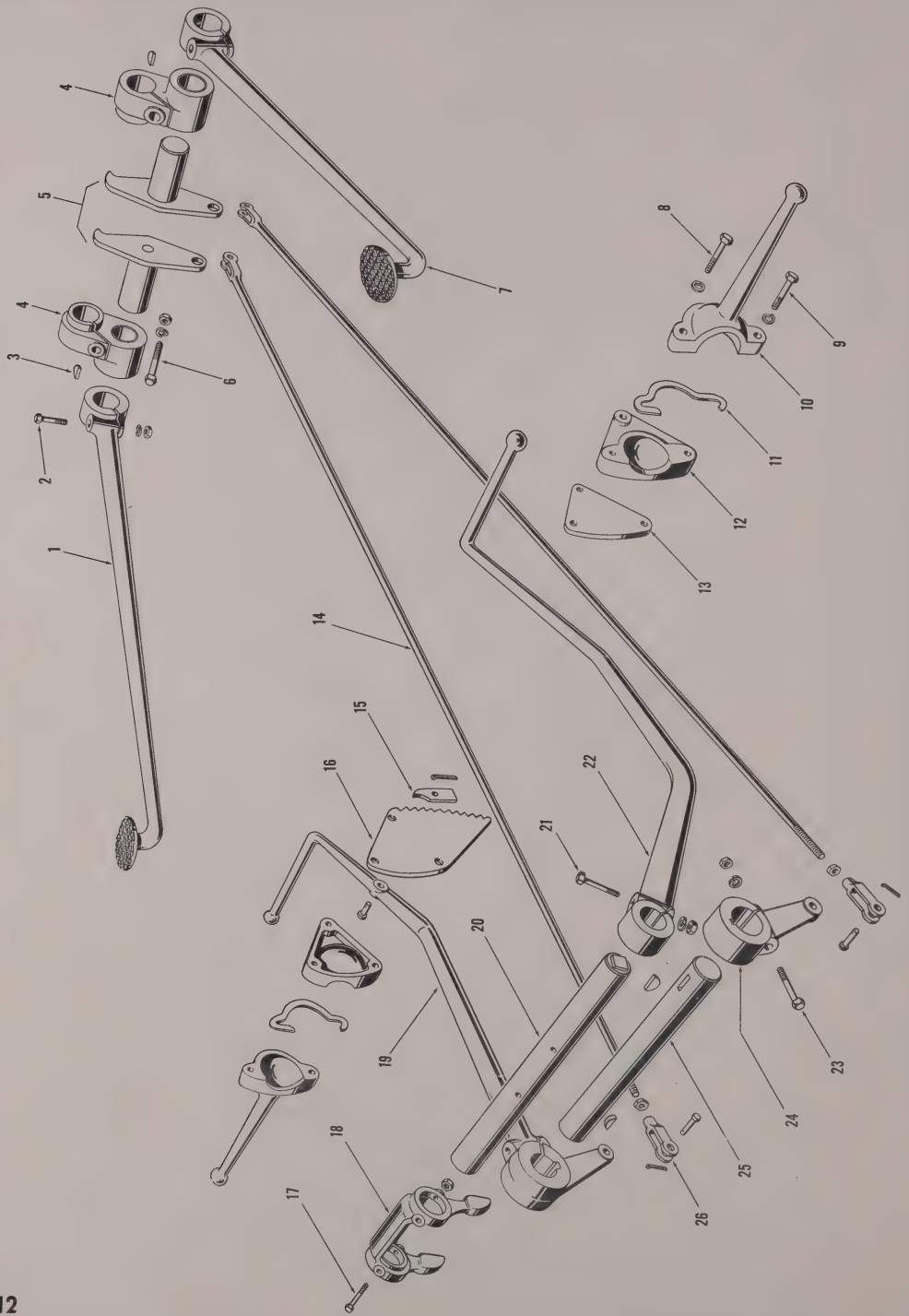

FIG. 12

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	FIG. 12 BRAKE AND CLUTCH PEDALS AND RELATED PARTS
1	TO-2455-B	1	1	-	★	★	★	PEDAL AND PAD ASSEMBLY - Brake - R.H.
2	44-001-212	2	2	-	2	2	2	BOLT - Hex Head - Pedal and Pad to Brake Stop
	44-14	2	2	-	2	2	2	WASHER - Lock
	44-003	2	2	-	2	2	2	NUT - Hex
3	19-09-112	2	2	-	2	2	2	KEY - Woodruff - Brake Linkage
4	TO-2060	1	1	-	1	1	1	LINKAGE AND BUSHING ASSEMBLY - Brake - R.H.
	TO-2061	1	1	-	1	1	1	LINKAGE AND BUSHING ASSEMBLY - Brake - L.H.
								Composed of
	S-10020	2	2	-	2	2	2	BUSHING - Brake Linkage - Shown in position
	25-007	1	1	-	1	1	1	FITTING - Lubrication - Not Illustrated
5	TO-2051	1	1	-	1	1	1	STOP AND SHAFT ASSEMBLY - Brake - L.H.
	TO-2053	1	1	-	1	1	1	STOP AND SHAFT ASSEMBLY - Brake - R.H.
6	44-001-238	2	2	-	2	2	2	BOLT - Hex Head - Brake Linkage
	44-14	2	2	-	2	2	2	WASHER - Lock
	44-003	2	2	-	2	2	2	NUT - Hex
7	TO-2456-B	1	1	-	★	★	★	PEDAL AND PAD ASSEMBLY - Brake - L.H.
8	44-101-150	2	2	-	★	★	★	SCREW - Cap - Radius Rod Ball Spacer to Trans.
	44-14	2	2	-	★	★	★	WASHER - Lock
9	44-101-288	4	4	-	★	★	★	SCREW - Cap - Radius Rod Ball Cap to Trans.
	44-14	4	4	-	★	★	★	WASHER - Lock
10	TO-3440	2	2	2	2	2	2	CAP - Ball - Radius Rod
11	TO-3441-A	As Req.	As Req.	As Req.	As Req.	As Req.	As Req.	SHIM - Radius Rod Ball Cap and Spacer
12	TO-3442	2	2	-	2	2	2	SPACER - Radius Rod Ball Cap
13	TO-3446	1	1	-	★	★	★	PLATE - Trans. Case to Ball Cap Spacer
14	TO-2785-A	2	2	-	★	★	★	ROD AND YOKE ASSEMBLY - Brake
15	TO-2786	1	1	-	1	1	1	PAWL - Brake Pedal
	S-10211-G	1	1	-	1	1	1	PIN - Clevis - Pawl to Brake Pedal
	12-05-50	1	1	-	1	1	1	PIN - Cotter
16	TO-3443	1	1	-	1	1	1	SECTOR - Pawl - Combine Brake
17	25-001-188	2	2	-	2	2	2	BOLT - Hex Head - Fork to Clutch Release Shaft
	S-9773-C	2	2	-	2	2	2	NUT - Tri - Lock
18	TO-7515	1	1	-	1	1	1	FORK - Clutch Release Shaft (w/TO-7510 for TE & TE-A20)
19	TO-2220-A	1	1	-	★	★	★	PEDAL - Combined Brake
20	TO-7510	1	1	-	1	1	1	SHAFT - Clutch Release - (w/TO-7515 for TE & TE-A20)
21	44-001-250	2	2	-	2	2	2	BOLT - Hex Head - Brake & Clutch Pedals to Shafts
	44-14	2	2	-	2	2	2	WASHER - Lock
	44-003	2	2	-	2	2	2	NUT - Hex
22	TO-7519	1	1	-	1	1	1	PEDAL - Clutch
23	44-001-250	1	1	-	1	1	1	BOLT - Hex Head - Combined Brake Arm to Shaft
	44-14	1	1	-	1	1	1	WASHER - Lock
	44-003	1	1	-	1	1	1	NUT - Hex
24	TO-2221-A	1	1	-	★	★	★	ARM - Combine Brake
25	TO-2792-A	1	1	-	★	★	★	SHAFT - Combine Brake Cross
	25-09-100	2	2	-	-	-	-	KEY - Woodruff
26	S-9761-D	2	2	-	★	★	★	YOKE - Adjustable Brake Rod
	S-10212-A	4	4	-	★	★	★	PIN - Clevis - Brake Rod
	12-05-88	4	4	-	4	4	4	PIN - Cotter
	38-1003	2	2	-	2	2	2	NUT - Hex Jam
					★ TE - and TE-A20 Service Items - Not Illustrated			
1	4351	-	-	-	1	1	1	PEDAL AND PAD ASSEMBLY - Brake - R.H.
7	4352	-	-	-	1	1	1	PEDAL AND PAD ASSEMBLY - Brake - L.H.
8	1586	-	-	-	2	2	2	STUD - Radius Rod Ball Spacer to Trans.
	44-14	-	-	-	2	2	2	WASHER - Lock
	44-003	-	-	-	2	2	2	NUT - Hex
9	1583	-	-	-	4	4	4	STUD - Radius Rod Ball Cap to Trans.
	44-14	-	-	-	4	4	4	WASHER - Lock
	44-003	-	-	-	4	4	4	NUT - Hex
13	4266	-	-	-	1	1	1	STOP - Clutch Pedal
14	1518	-	-	-	2	2	2	ROD - Brake
19	7097	-	-	-	1	1	1	PEDAL - Combined Brake
24	4269	-	-	-	1	1	1	ARM - Combined Brake L.H.
	4270	-	-	-	1	1	1	ARM - Combined Brake R.H.
25	4305	-	-	-	1	1	1	SHAFT - Combine Brake Cross
26	S-10213-A	-	-	-	4	4	4	PIN - Clevis - Brake Rod
	1317	-	-	-	2	2	2	YOKE - Adjustable Brake Rod - Front
	1488	-	-	-	2	2	2	YOKE - Adjustable Brake Rod - Rear

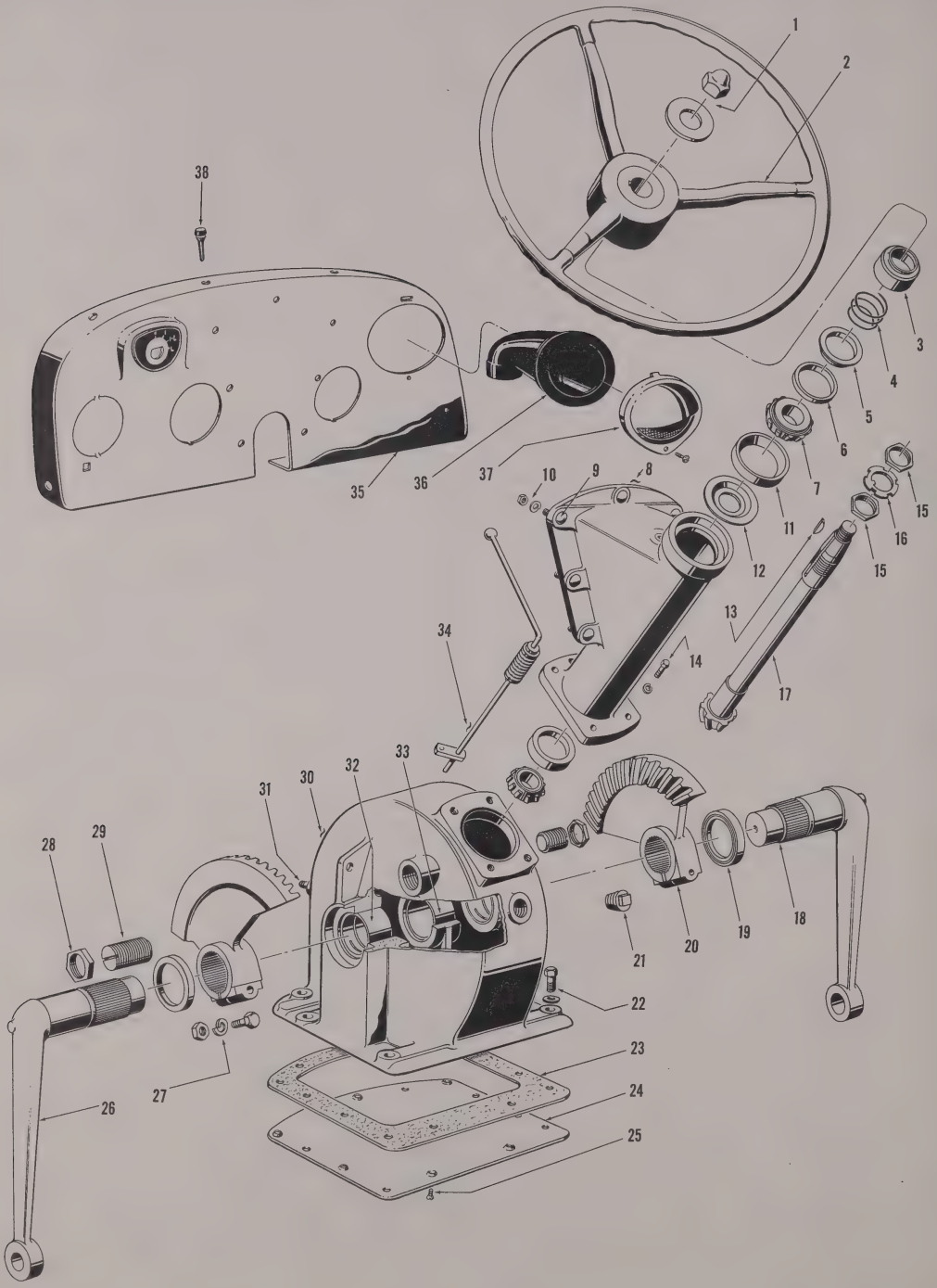
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FIG. 13

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 13 STEERING GEAR, INSTRUMENT PANEL AND RELATED PARTS
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
1	S-351103	1	1	1	1	1	1	NUT - Dome - Steering Wheel
	TO-3673	1	1	1	1	1	1	WASHER - Steering Wheel Dome Nut
2	TO-3600	1	1	1	1	1	1	WHEEL - Steering
3	TO-3669	1	1	-	1	1	1	CAP - Steering Column
4	TO-3699	1	1	1	1	1	1	SPRING - Steering Column Dust Seal
5	TO-3661	1	1	1	1	1	1	RETAINER - Steering Column Dust Seal
6	TO-3660	1	1	1	1	1	1	SEAL - Dust - Steering Column
7	S-9822	2	2	-	2	2	2	CONE AND ROLLER - Steering Column
8	TO-3561	1	1	-	1	1	1	HOUSING ASSEMBLY - Steering Gear Upper
								Composed of Housing not serviced and Items 9 thru 12
9	TO-3534	7	7	-	7	7	7	BOLT - Ribbed - Steering Housing to Panel
10	31-14	7	7	-	7	7	7	WASHER - Lock - Ribbed Bolt
	31-003	7	7	-	7	7	7	NUT - Hex
11	S-9823	2	2	-	2	2	2	CUP - Bearing - Steering Column
12	TO-3598	1	1	1	1	1	1	RETAINER - Steering Column Oil
13	19-09-75	1	1	-	1	1	1	KEY - Woodruff - Steering Shaft to Wheel
14	44-101-138	4	4	-	4	4	4	SCREW - Cap - Upper to Lower Housing
	44-14	4	4	-	4	4	4	WASHER - Lock
15	S-351119	2	2	2	2	2	2	NUT - Lock - Steering Shaft
16	TO-3652	1	1	-	1	1	1	WASHER - Lock - Steering Shaft
17	TO-3525	1	1	-	1	1	1	SHAFT AND PINION - Steering
18	TO-3531	1	1	-	1	1	1	ARM - Steering Gear Sector - R.H.
19	S-9910	2	2	-	2	2	2	SEAL - Steering Gear Sector Arm
20	TO-3526	2	2	-	2	2	2	SECTOR - Steering Gear
21	S-353051	1	1	-	1	1	1	PLUG - Dry Seal - Lower Housing Filler
22	44-101-150	6	6	6	12	12	12	SCREW - Cap - Lower Housing to Trans. Case
	44-104	6	6	6	12	12	12	WASHER - Flat
23	TO-3558-A	2	2	-	★	★	★	GASKET - Lower Steering Housing
24	TO-3555-A	1	1	-	★	★	★	PLATE - Lower Steering Housing
25	19-102-38	7	7	-	★	★	★	SCREW - Flat Head - Plate to Lower Housing
26	TO-3530	1	1	-	1	1	1	ARM - Steering Gear Sector - L.H.
27	44-001-231	2	2	-	2	2	2	BOLT - Hex Head - Steering Gear Sector to Arm
	44-14	2	2	-	2	2	2	WASHER - Lock
	44-003	2	2	-	2	2	2	NUT - Hex
28	75-1003	2	2	-	2	2	2	NUT - Hex Jam - Steering Gear Adjusting Screw
29	TO-3529	2	2	-	2	2	2	SCREW - Adjusting - Steering Gear
30	TO-3520-A	1	1	-	★	★	★	HOUSING ASSEMBLY - Steering Gear - Lower
								Composed of Housing not serviced and Items 31 thru 33
31	44-0132-112	2	2	-	2	2	2	STUD - Threaded - Lower Housing to Platform
32	TO-3517	2	2	-	2	2	2	BUSHING - Steering Arm - Outer
33	S-10012	1	1	-	1	1	1	BUSHING - Steering Arm - Inner
34	TO-9808	1	1	-	1	1	★1	LEVER ASSEMBLY - Throttle Control
35	TO-3513	-	1	-	1	★	★	PANEL - Instrument
	TO-3513-A	1	-	-	-	-	-	PANEL - Instrument
	TO-3694	1	-	-	-	-	-	PLATE - Ignition Switch Index
	S-10100	-	1	-	1	-	-	PLUG - Button - Instrument Panel - Small - Not Illustrated
	S-10101	-	1	-	1	-	-	PLUG - Button - Instrument Panel - Large - Not Illustrated
36	TO-9614	1	-	-	-	-	★	HOSE - Air Inlet - Rubber
37	TO-9611	1	-	-	-	-	★	SCREEN - Air Inlet
	TO-9615	1	-	-	-	-	★	COVER - Air Inlet
	TO-9613-1	1	-	-	-	-	★	SCREW - Air Inlet Cover to Panel
38	TO-16611	4	4	-	★	★	★	BUMPER - Rubber Instrument Panel
					★ TE- and TE-A20 Service Items - Not Illustrated			
23	TS-3557	-	-	-	2	2	2	GASKET - Lower Steering Housing to Trans. Case
24	7177	-	-	-	1	1	1	PLATE - Lower Steering Housing
25	1547	-	-	-	10	10	10	SCREW - Flat Hd. - Plate to Lower Housing
30	1830	-	-	-	1	1	1	HOUSING ASSEMBLY - Lower Steering
34	7325	-	-	-	-	-	1	LEVER ASSEMBLY - Throttle Control - 200,001 & Future
35	2504	-	-	-	-	-	1	INSTRUMENT PANEL AND SEAL - 200,001 & Future
36	7330	-	-	-	-	-	1	HOSE - Air Inlet - Rubber - 200,001 & Future
37	2622	-	-	-	-	-	1	SCREEN - Air Inlet - 200,001 & Future
	7331							COVER - Air Inlet - 200,001 & Future
	19-102-38	-	-	-	-	-	1	SCREW - Air Inlet Cover to Panel - 200,001 & Future
38	1944	-	-	-	1	1	1	SEAL - Rubber - Instrument Panel
	7093	-	-	-	1	1	1	SUPPORT - Instrument Panel

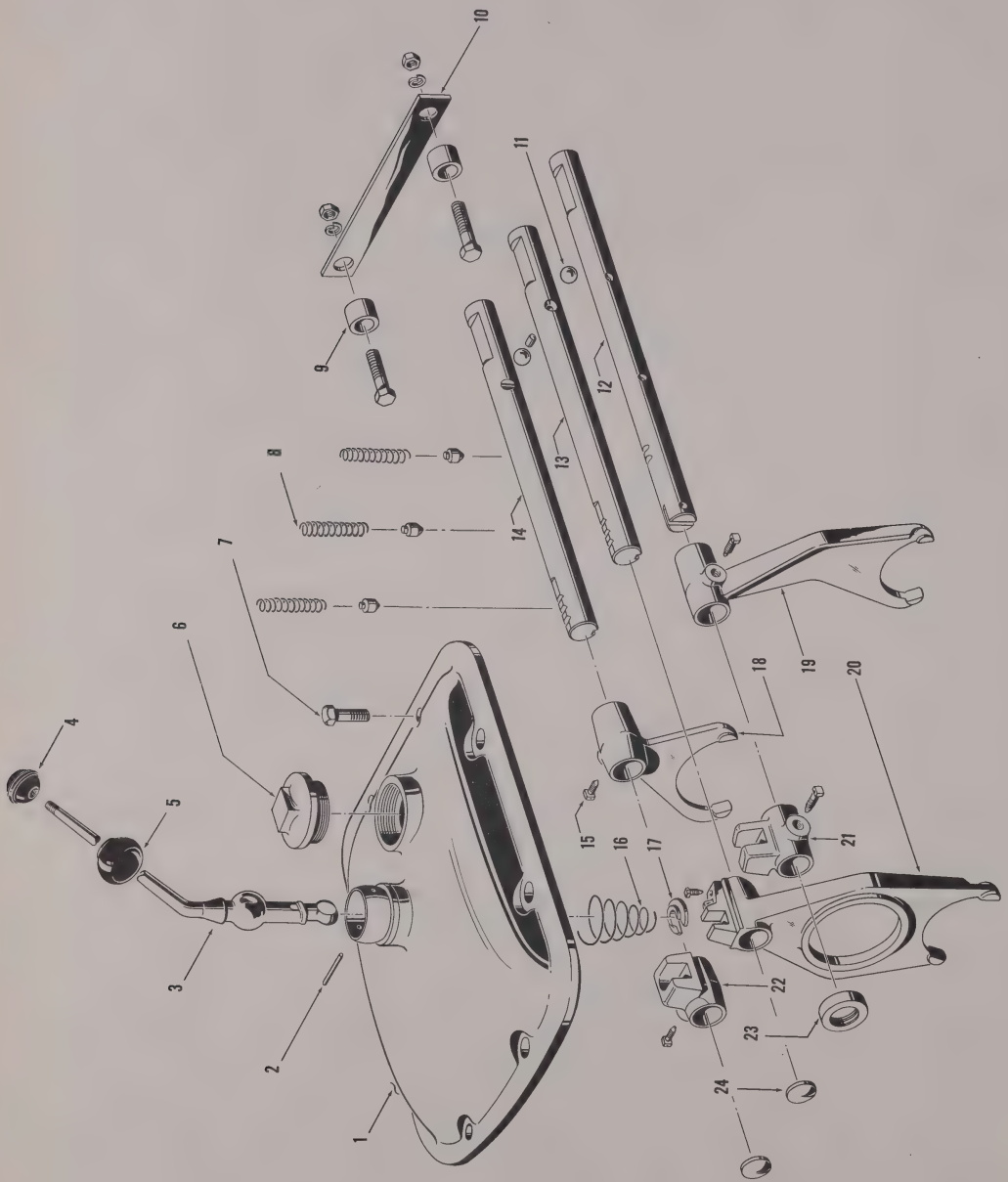

FIG. 14

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 14 GEAR SHIFT LEVER, RAILS, FORKS AND RELATED PARTS
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
1	TO-7222	1	1	-	★	★	★	COVER ASSEMBLY - Trans. Gear Shift
2	TO-7221	1	1	1	1	1	1	PIN - Gear Shift - Cover to Lever
3	TO-7210-B	1	1	-	1	1	1	LEVER - Gear Shift
4	TO-7211-A	1	1	-	-	-	-	BALL - Gear Shift Lever - Threaded
5	TO-7277-A	1	1	-	1	1	1	COVER - Gear Shift Lever - Rubber
	12-06-88	-	1	-	1	1	1	RIVET - Button Head - Cover to Lever - Not Illustrated
6	TO-7010	-	-	-	★1	★1	★1	PLUG - Filler Gear Shift Cover
	TO-7010-A	1	1	-	-	-	-	PLUG - Filler Gear Shift Cover
7	44-101-88	8	8	-	★	★	★	SCREW - Cap - Trans. Cover to Case
8	TO-7239	3	3	-	3	3	3	SPRING - Transmission Shifter Rail
	TO-7249	3	3	-	3	3	3	PLUNGER - Selector Rail Position
9	44-001-188	2	2	-	2	2	★2	BOLT - Hex Head - Stop Plate to Case
	TO-7238	2	2	-	2	2	2	SPACER
	44-14	2	2	-	2	2	★2	WASHER - Lock
	44-003	2	2	-	2	2	2	NUT - Hex
10	TO-7251	1	1	-	1	1	1	PLATE - Gear Lever Stop
11	S-353079	2	2	-	2	2	2	BALL - Steel - Shifter Rail
	TO-7237	1	1	-	1	1	1	PLUNGER - Selector Lock
12	TO-7242	1	1	-	1	1	1	RAIL - Shifter - Reverse (w/TO-7245 for TE and TE-A20)
13	TO-7241	1	1	-	1	1	1	RAIL - Shifter - 3rd and 4th (w/TO-7245 for TE-and TE-A20).
14	TO-7240	1	1	-	1	1	1	RAIL - Shifter - 1st and 2nd (w/TO-7245 for TE-and TE-A20).
15	TO-7245	5	5	-	5	5	5	SCREW - Lock - Gear Shifter Fork and Selector
16	TO-7227-A	1	1	-	★	★	★	SPRING - Gear Shift Lever
17	TO-7228	1	1	-	1	1	1	SEAT - Gear Shift Lever Spring
18	TO-7230	1	1	-	1	1	1	FORK - Shifter - 1st and 2nd Gear
19	TO-7231	1	1	-	1	1	1	FORK - Shifter - Reverse Gear
20	TO-7236	1	1	-	★	★	★	FORK - Shifter - 3rd and 4th Gear
21	TO-7248	1	1	-	★	★	★	SELECTOR - Shifter Fork Reverse Gear
22	TO-7247	1	1	-	★	★	★	SELECTOR - Shifter Fork 1st and 2nd Gear
23	S-9911	1	1	-	1	1	1	SEAL - Oil Reverse Shifter Rail
24	S-74115	2	2	-	2	2	2	PLUG - Expansion - Shifter Rail
	★TE - and TE-A20 Service Items - Not Illustrated							
1	7081	-	-	-	1	1	1	CUP - Gear Shift Lever
	4178	-	-	-	1	1	1	STOP Plate - Reverse and Starter
	1943	-	-	-	1	1	1	GASKET - Gear Shift Lever Cup
6	TO-7011	-	-	-	1	1	1	GASKET - Filler Plug
7	1507	-	-	-	2	2	2	STUD - Gear Shift Lever
	44-14	-	-	-	2	2	2	WASHER - Lock
	44-003	-	-	-	2	2	2	NUT - Hex
	44-013	-	-	-	2	2	2	NUT - Hex Slotted
	09-05-75	-	-	-	2	2	2	PIN - Cotter
9	102513	-	-	-	-	-	2	STUD - Gear Lever Stop - 200,001 & Future
	2563	-	-	-	-	-	2	WASHER - Tab - 200,001 & Future
16	1260	-	-	-	1	1	1	SPRING - Gear Shift Lever
20	8542	-	-	-	1	1	1	FORK - Shifter - 3rd and 4th Gear
21	1873	-	-	-	1	1	1	SELECTOR - Shifter Fork Reverse Gear
22	4149	-	-	-	1	1	1	SELECTOR - Shifter Fork 1st and 2nd Gear

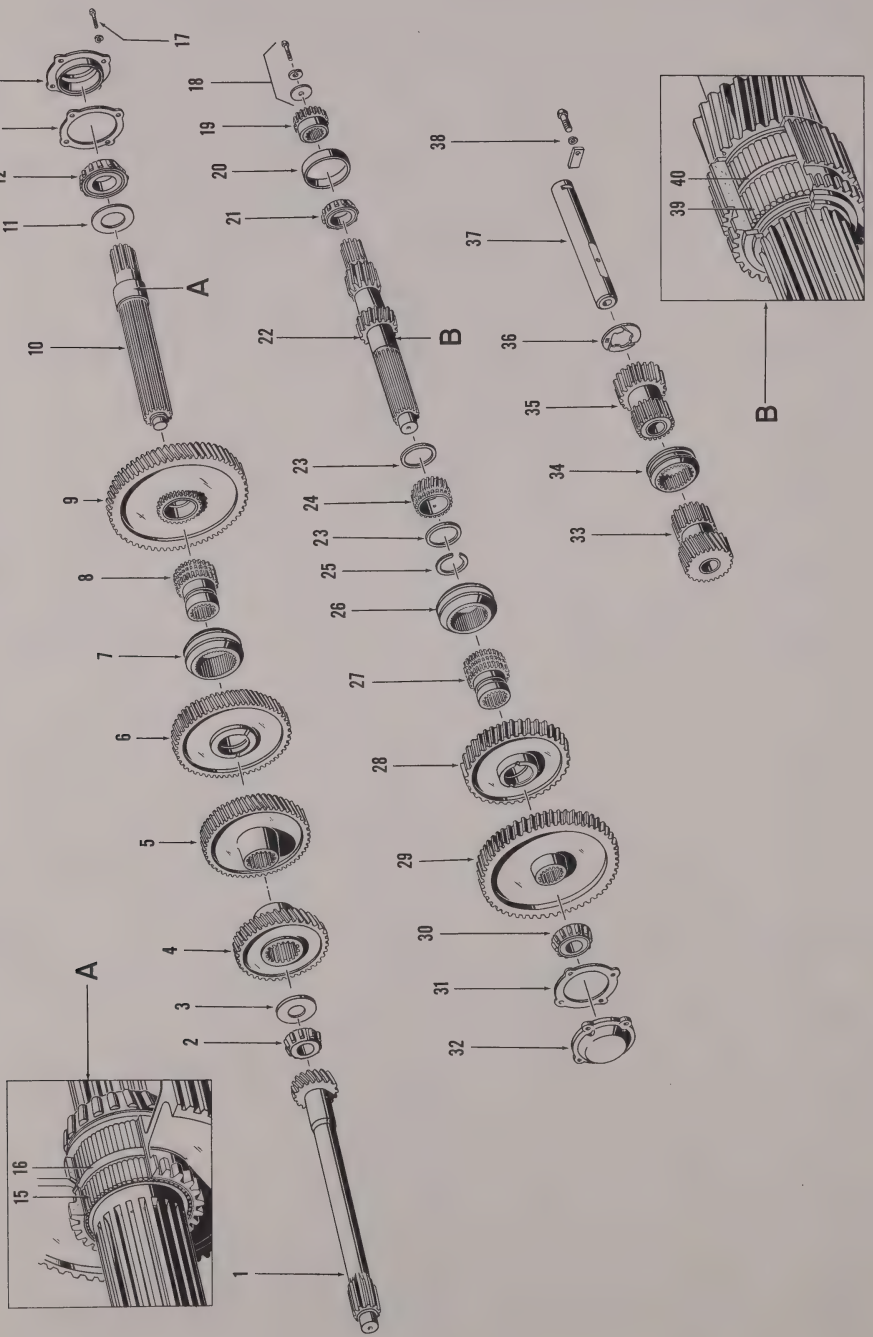
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FIG. 15

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 15 TRANSMISSION
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
	TO-7002	-	1	-	1	1	1	TRANSMISSION ASSEMBLY - Not Illustrated as an Assy.
	TO-7004	1	-	-	-	-	-	TRANSMISSION ASSEMBLY - Not Illustrated as an Assy. Composed of P.T.O. Retainer Assy, Shifter Rails, Forks, Case, Main Gear Retainer, Starter Switch, and their related parts, also the following.
1	TO-7017	1	1	1	1	1	1	GEAR - Transmission Main Drive Shaft
2	S-9836	1	1	1	1	1	1	CONE AND ROLLER - Main Drive Shaft Pilot
3	TO-7071-B	1	1	-	1	1	1	WASHER - Thrust - Main Shaft Front
4	TO-7110	1	1	-	1	1	1	GEAR - 4th - Transmission Main Shaft
5	TO-7102	1	1	-	1	1	1	GEAR - 3rd - Transmission Main Shaft
6	TO-7119-A	1	1	-	1	1	1	GEAR AND BUSHING - 2nd - Trans. Main Shaft
7	TO-7106	1	1	-	1	1	1	COUPLING - Sliding - Transmission
8	TO-7105	1	1	-	1	1	1	CONNECTOR - Coupling - Main Shaft
9	TO-7100-A	1	1	-	★	★	★	GEAR - 1st - Transmission Main Shaft
10	TO-7061-A	1	1	-	★	★	★	SHAFT - Main - Transmission
11	TO-7071-A	1	1	-	1	1	1	WASHER - Thrust - Main Shaft - Rear
12	S-9834	1	1	-	1	1	1	CONE AND ROLLER - Main Shaft - Rear
13	TO-7135-A	As Req	As Req	As Req	As Req	As Req	As Req	SHIM - .003 Thick - Main Shaft Bearing Retainer
	TO-7135-F	As Req	As Req	As Req	As Req	As Req	As Req	SHIM - .005 Thick
	TO-7135-G	As Req	As Req	As Req	As Req	As Req	As Req	SHIM - .012 Thick
	TO-7135-H	As Req	As Req	As Req	As Req	As Req	As Req	SHIM - .025 Thick
14	TO-7084	1	1	1	1	1	1	RETAINER ASSEMBLY - Main Shaft Brg. - Rear Composed of Retainer not serviced and
	S-9835	1	1	1	1	1	1	CUP - Bearing - Shown in position
15	TO-7257	104	104	-	-	-	-	BEARING - Needle - 1st Gear to Main Shaft
16	TO-7063	1	1	-	-	-	-	SPACER - 1st Gear Needle Bearing
17	38-101-112	8	8	8	8	8	8	SCREW - Cap - Front and Rear Brg. Retainer
	38-14	8	8	8	8	8	8	WASHER - Lock
18	38-001-100	1	1	1	1	1	1	BOLT - Hex Head - P.T.O. Clutch Hub to Countershaft
	38-14	1	1	1	1	1	1	WASHER - Lock
	S-351406	1	1	1	1	1	1	WASHER - Retainer
19	TO-716	1	1	-	1	1	1	HUB - Power Take-Off Clutch
20	S-9835	1	1	1	1	1	1	CUP - Bearing - P.T.O. Support
21	S-9834	1	1	1	1	1	1	CONE AND ROLLER - P.T.O. Clutch Hub
22	TO-7111-A	1	1	-	★	★	★	COUNTERSHAFT - Transmission
23	TO-7253	2	2	-	★	★	★	WASHER - Thrust - Countershaft
24	TO-7114-A	1	1	-	★	★	★	GEAR - 3rd - Transmission Countershaft
25	S-10167	1	1	-	-	-	-	RING - Snap - 3rd Gear Countershaft
26	TO-7106	1	1	-	1	1	1	COUPLING - Sliding - Transmission
27	TO-7127	1	1	-	★	★	★	CONNECTOR - Coupling - Countershaft
28	TO-7121	1	1	-	1	1	1	GEAR AND BUSHING ASSEMBLY - 4th Countershaft

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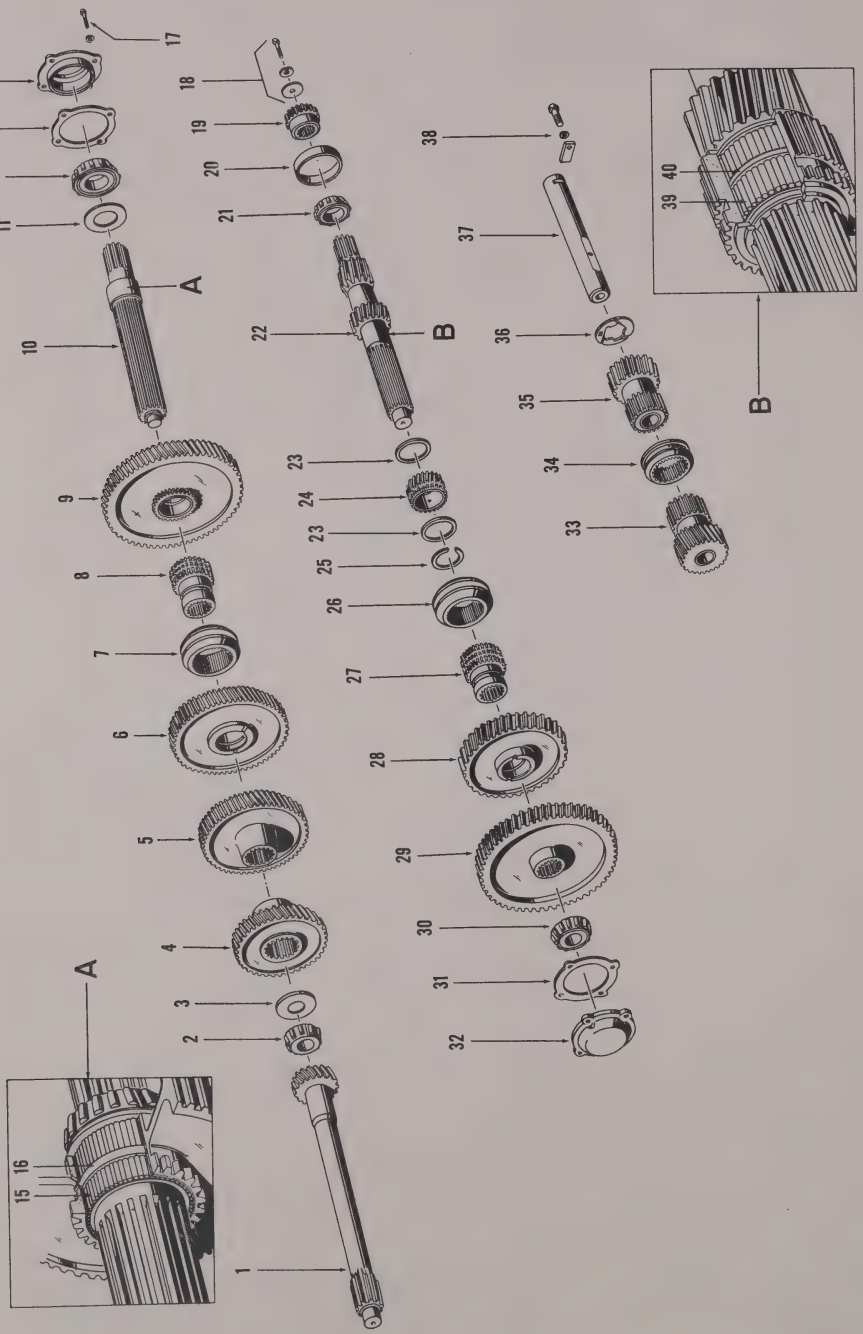
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FIG. 15

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 15 TRANSMISSION —Cont'd.
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
29	TO-7113	1	1	-	1	1	1	GEAR - Transmission Countershaft
30	S-9834	1	1	-	1	1	1	CONE AND ROLLER - Countershaft - Front
31	TO-7086	1	1	1	1	1	1	GASKET - Countershaft Bearing Retainer
32	TO-7132	1	1	-	1	1	1	RETAINER ASSEMBLY - Countershaft Bearing - Front Composed of Retainer not serviced and
	S-9835	1	1	-	1	1	1	CUP - Bearing - Pressed in position
33	TO-7146	1	1	-	1	1	1	GEAR AND BUSHING ASSEMBLY - Reverse Driver
34	TO-7145	1	1	-	1	1	1	COUPLING - Sliding - Reverse Shaft
35	TO-7141	1	1	-	1	1	1	GEAR AND BUSHING - Reverse Idler
36	TO-7149	-	1	-	1	1	1	WASHER - Thrust - Reverse Gear - Up to 31946
	TO-7149-A	1	1	-	-	-	-	WASHER - Thrust - Reverse Gear - 31946 & Future
37	TO-7140-A	1	1	-	1	1	1	SHAFT - Transmission Reverse Gear
38	TO-7156	1	1	-	1	1	1	STOP - Transmission Reverse Gear Shaft
	TO-7157	-	1	-	1	1	1	BOLT - Lock Reverse Gear Shaft - Up to 31946
	31-101-88	1	1	-	-	-	-	BOLT - Hex Head - Lock Reverse Gear Shaft - 31946 & Future
	31-14	1	1	-	1	1	1	WASHER - Lock - Reverse Gear Shaft Bolt
39	TO-7256	76	76	-	★	★	★	BEARING - Needle - 3rd Gear Countershaft
40	TO-7252	3	3	-	-	-	-	SPACER - 3rd Gear Needle Bearing
			★ TE- and TE-A20 Service Items-Not Illustrated					
9	7121	-	-	-	1	1	1	GEAR ASSEMBLY - 1st Transmission Main Shaft
10	4057	-	-	-	1	1	1	SHAFT - Main - Transmission
22	7120	-	-	-	1	-	-	COUNTERSHAFT ASSEMBLY - Transmission - Up to 146308
	7291	-	-	-	-	1	1	COUNTERSHAFT ASSEMBLY - Transmission - 146308 & Future
23	1485	-	-	-	2	-	-	WASHER - Thrust - Countershaft - Up to 146308
	2406	-	-	-	-	2	2	WASHER - Thrust - Countershaft - Optional w/2366-146308 & Future
	2366	-	-	-	-	2	2	WASHER - Thrust - Countershaft - Optional w/2406-146308 & Future
24	4040	-	-	-	1	1	-	GEAR - 3rd - Transmission Countershaft - Up to 146308
	7292	-	-	-	-	1	1	GEAR - 3rd - Transmission Countershaft - 146308 & Future
27	TO-7105	-	-	-	1	1	-	CONNECTOR - Coupling - w/TO-7106 - Up to 146308
	TO-7106	-	-	-	1	1	-	COUPLING - Sliding - w/TO-7105 - up to 146308
	2399	-	-	-	-	2	2	COLLAR - Split - 146308 & Future
	2426	-	-	-	-	1	1	GEAR ASSY. - Connecting - 146308 & Future
39	TS-7116	-	-	-	1	1	1	BUSHING - 3rd Gear Countershaft

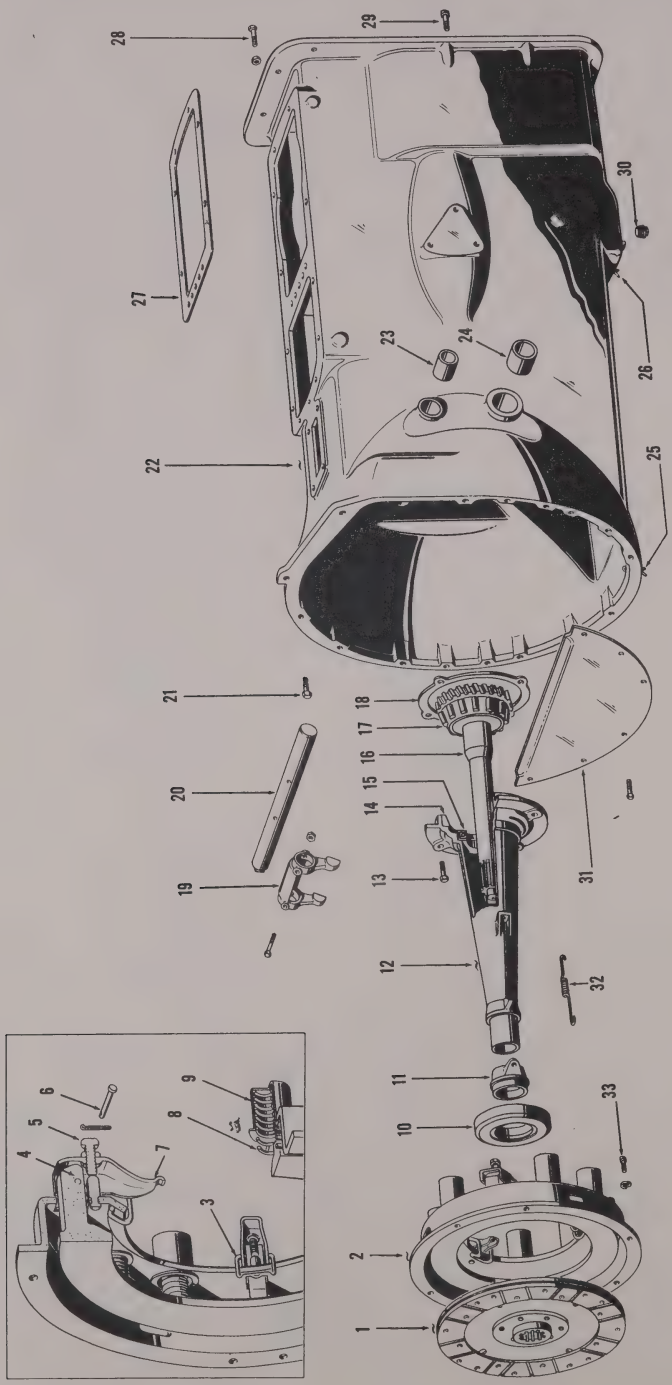
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FIG.16

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 16 TRANSMISSION CASE, CLUTCH AND RELATED PARTS
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
1	TO-7550-2	1	1	1	1	1	1	DISC ASSEMBLY - Clutch Composed of Disc not serviced and
	TO-7548	1	1	-	★	★	★	FACING KIT - Clutch
	TO-7557	20	20	-	-	-	-	RIVET - Clutch
2	TO-7563-3	1	1	1	1	1	1	PLATE AND COVER ASSEMBLY - Clutch Pressure Composed of Cover not serviced and Items 3 thru 9
3	TO-7577	3	3	-	★	★	★	SPRING - Clutch Release Lever
4	TO-7566	1	1	-	★	★	★	PLATE - Clutch Pressure
5	TO-7575	3	3	-	★	★	★	SCREW - Adjusting - Clutch Release Lever
	TO-7576	3	3	-	★	★	★	NUT - Adjusting Screw
6	TO-7579	3	3	-	★	★	★	PIN - Clutch Release Lever
	09-05-50	3	3	-	-	-	-	PIN - Cotter
7	TO-7591	3	3	-	★	★	★	LEVER - Clutch Release
8	TO-7572	3	6	-	★	★	★	SPRING - Clutch Thrust - Brown
	TO-7572-B	3	3	-	-	-	-	SPRING - Clutch Thrust - Lavender
9	TO-7578	6	6	-	-	-	-	CUP - Thrust Spring
10	S-9853	1	1	1	1	1	1	BEARING ASSEMBLY - Clutch Release
11	TO-7561	1	1	1	1	1	1	HUB - Clutch Release Bearing
12	TO-7051	1	1	1	1	1	1	RETAINER ASSEMBLY - Transmission Main Shaft Bearing Composed of Retainer not serviced and Item 14
13	38-101-112	4	4	4	4	4	4	SCREW - Cap - Retainer to Transmission Case
14	S-9835	1	1	1	1	1	1	CUP - Bearing - Main Shaft Retainer - Shown in Position
15	S-9907	1	1	1	1	1	1	SEAL - Oil Main Drive Gear - Shown in Position
16	TO-7017	1	1	1	1	1	1	GEAR - Transmission Main Drive
17	S-9834	1	1	1	1	1	1	CONE AND ROLLER - Main Drive Gear
18	TO-7086	1	1	1	1	1	1	GASKET - Main Shaft Bearing Retainer
19	TO-7515	1	1	-	1	1	1	FORK - Clutch Release Shaft - (w/TO-7510 for TE- and TE-A20)
	25-001-188	2	2	-	2	2	2	BOLT - Hex Head - Fork to Clutch Release Shaft
	S-9773-C	2	2	-	2	2	2	NUT - Tri-Lock
20	TO-7510	1	1	-	1	1	1	SHAFT - Clutch Release - (w/TO-7515 for TE- and TE-A20)
21	44-101-125	6	6	-	6	6	6	SCREW - Cap - Engine to Transmission Case
	44-101-100	1	1	-	1	1	1	SCREW - Cap
22	TO-7005	1	1	-	★	★	★	CASE ASSEMBLY - Transmission Composed of Case not serviced and Items 23 thru 26
23	TO-7508	2	2	-	2	2	2	BUSHING - Clutch Shaft
24	TO-7244	2	2	-	★	★	★	BUSHING - Brake Shaft
25	19-05-88	1	1	-	-	-	-	PIN - Cotter - Transmission Case Drain Hole
26	19-05-88	1	1	-	-	-	-	PIN - Cotter - Transmission Case Drain Hole
27	TO-7213	1	1	-	★	★	★	GASKET - Transmission Shifter Plate Cover
28	44-001-138	8	8	8	8	★	★	BOLT - Hex Head - Center Housing to Transmission Case
	44-003	8	8	8	8	★	★	NUT - Hex
29	44-101-112	2	2	-	★	★	★	SCREW - Cap - Center Housing to Transmission Case

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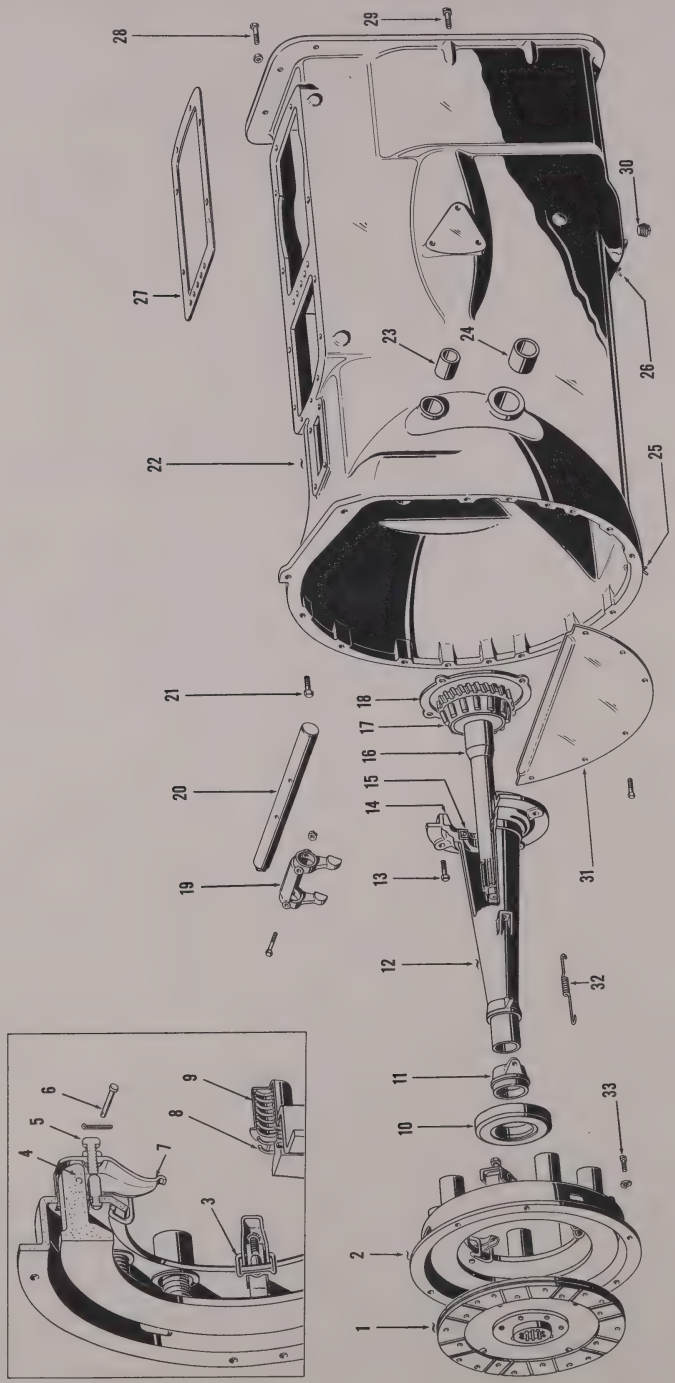
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FIG.16

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	FIG. 16 TRANSMISSION CASE, CLUTCH AND RELATED PARTS—Cont'd.
30	S-353051	1	1	-	1	1	1	PLUG - Pipe - Drain Hole
	S-353065	1	1	-	-	-	-	PLUG - Pipe - Side Hole - Not Illustrated
31	TO-7246	1	1	-	1	-	-	PLATE - Transmission Case Cover
	44-101-50	6	6	-	6	-	-	SCREW - Cap - Cover to Case
32	TO-7562	2	2	2	2	2	2	SPRING - Clutch Release Bearing
33	TO-7564	6	6	-	6	6	6	BOLT - Hex Head - Clutch Cover to Flywheel
	31-14	6	6	-	6	6	6	WASHER - Lock
	★ TE- and TE-A20 Service Items - Not Illustrated							
1	59621	-	-	-	1	1	1	FACING KIT - Clutch
3	35249	-	-	-	3	3	3	SPRING - Clutch Release Lever
4	46032	-	-	-	1	1	1	PLATE - Clutch Pressure
5	41325	-	-	-	3	3	3	BOLT - Eye - Adjusting
	35253	-	-	-	3	3	3	NUT - Adjusting Eye Bolt
6	42537	-	-	-	3	3	3	PIN - Clutch Release Lever
7	51681	-	-	-	3	3	3	LEVER - Clutch Release
	41326	-	-	-	3	3	3	STRUT - Clutch Release Lever
8	48648	-	-	-	9	9	-	SPRING - Clutch Thrust - up to 172,597 - Orange
	48650	-	-	-	-	-	9	SPRING - Clutch Thrust - 172,597 and Future - Cream
22	1824	-	-	-	1	1	1	CASE ASSEMBLY - Transmission - Order TO-7005 and TS-7244 - up to 200,001
	2479	-	-	-	-	-	1	CASE ASSEMBLY - Transmission - 200,001 and Future
24	TS-7244	-	-	-	1	1	1	BUSHING - Brake Shaft
27	TS-3557	-	-	-	1	1	1	GASKET - Transmission Case to Steering Housing
28	44-001-162	-	-	-	-	9	9	BOLT - Hex Head - Center Housing to Transmission Case
	44-003	-	-	-	-	9	9	NUT - Hex
29	44-101-138	-	-	-	3	3	4	SCREW - Cap - Center Housing to Transmission Case
	1351	-	-	-	2	-	-	STRUT - Front Axle to Transmission Case
	1352	-	-	-	2	-	-	FLANGE - Transmission Case Strut
	8607	-	-	-	1	1	1	GASKET - Transmission Case to Engine - For 1824 Case - up to 200,001
	8740	-	-	-	-	-	1	GASKET - Transmission Case to Engine - 200,001 and Future

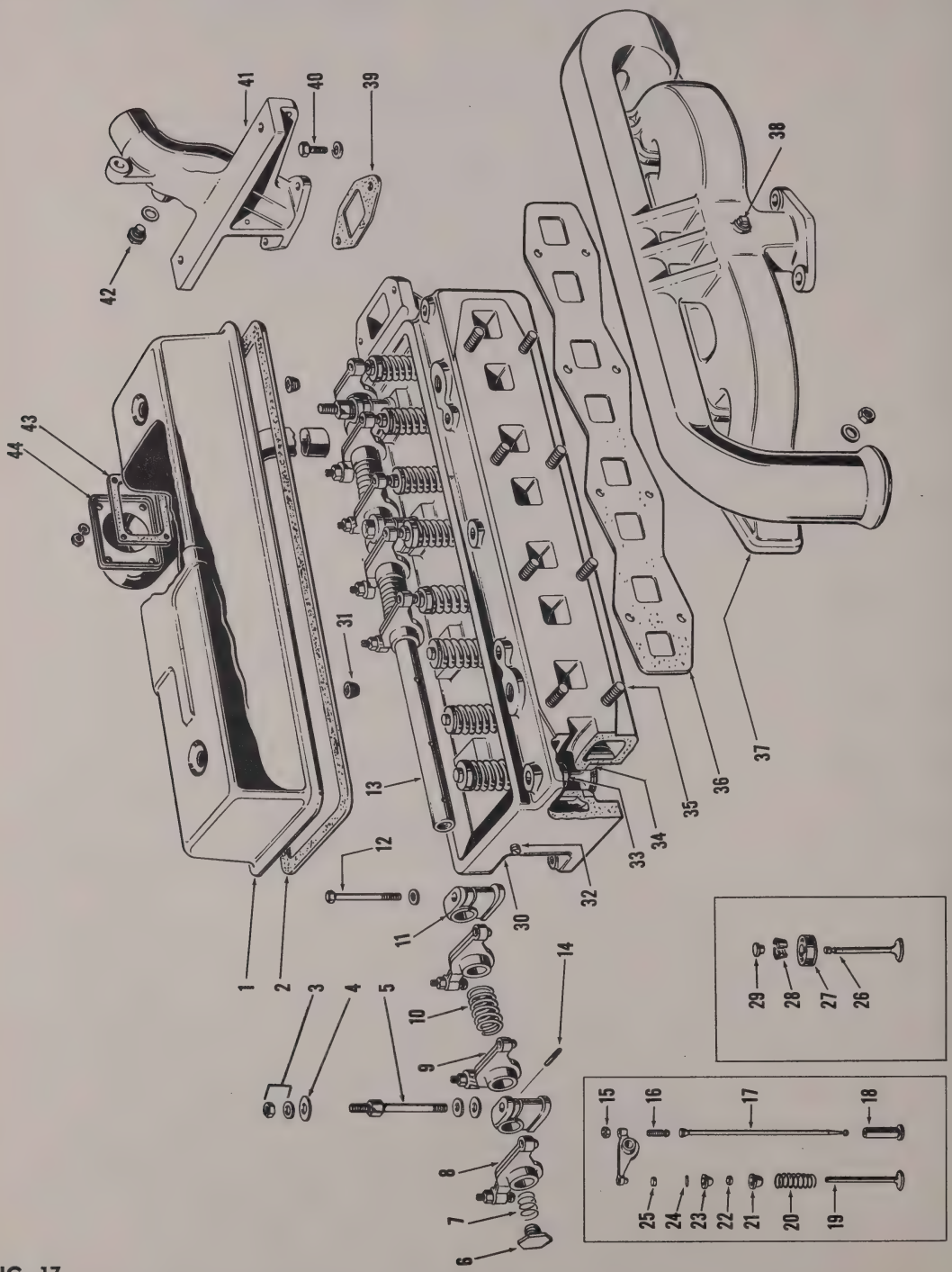
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FIG. 17

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	TE-20	FIG. 17 ENGINE-CYLINDER HEAD, VALVES AND RELATED PARTS
	TO-6005-A	1	-	-	ENGINE ASSEMBLY - Less Electrical, Carburetor and Oil Filter
	TO-6005	-	1	1	ENGINE ASSEMBLY - Less Electrical and Carburetor
1	Z129A-5000	1	1	1	COVER ASSEMBLY - Cylinder Head - w/Item 5 for TO & TE-20
2	Z120A-301	1	1	1	GASKET - Cylinder Head Cover to Cylinder Head
3	X-18080	2	2	2	NUT - Hex - Rocker Arm Stud to Cover
	38-104	2	2	2	WASHER - Flat
4	X-211-A	2	2	2	GASKET - Rocker Arm Stud to Cover
5	Z120I-209	-	2	2	STUD - Rocker Arm - Up to Engine 158,787
	Z129I-201	2	2	-	STUD - Rocker Arm - Engine 158,787 & Future
6	Z120I-214	-	-	2	PLUG - Oil - Rocker Arm Shaft - Up to Engine 36,574
	Z120I-212	2	2	2	PLUG - Oil - Rocker Arm Shaft - Engine 36,574 & Future For TE-20
7	Z120I-204	2	2	2	SPRING - Rocker Arm Shaft Plug - Short
8	Z120I-2290	4	4	4	ROCKER ARM ASSEMBLY - R.H. Composed of Arm and Bushing not serviced and Items 15 and 16
9	Z120I-2280	4	4	4	ROCKER ARM ASSEMBLY - L.H. Composed of Arm and Bushing not serviced and Items 15 and 16
10	Z120I-205	3	3	3	SPRING - Rocker Arm Shaft - Long
11	Z120I-201	4	4	4	SUPPORT - Rocker Arm Shaft
12	38-101-200	2	2	2	SCREW - Rocker Arm Shaft Support to Cylinder Head
	38-104	4	4	4	WASHER - Flat - Rocker Arm Stud and Screw
13	Z120I-4012	1	1	1	SHAFT ASSEMBLY - Rocker Arm Composed of Shaft not serviced and Item 6
14	X-1743-A	1	1	1	PIN - Rocker Arm Shaft Support
15	X-18198	8	8	8	NUT - Rocker Arm Adjusting Screw
16	G157I-202	8	8	8	SCREW - Rocker Arm Adjusting
17	Z120I-206	8	8	8	ROD - Push Valve
18	VT-3236	8	8	8	TAPPET - Valve
19	Z120T-123	-	1	1	VALVE SET - Exhaust - Set of 8
	Z120T-131	-	1	1	VALVE SET - Intake - Set of 8
	Z129T-117	1	-	-	VALVE SET - Intake - Set of 4
20	Y400I-215	8	8	8	SPRING - Valve
21	Z120I-210	4	4	4	GUARD - Valve Stem Oil - Inlet Only
22	Z120I-211	4	4	4	GASKET - Valve Stem Oil Guard - Inlet Only
23	Z120I-207	4	8	8	RETAINER - Valve Spring
24	Y400I-205	4	8	8	PIN - Valve Spring Retainer

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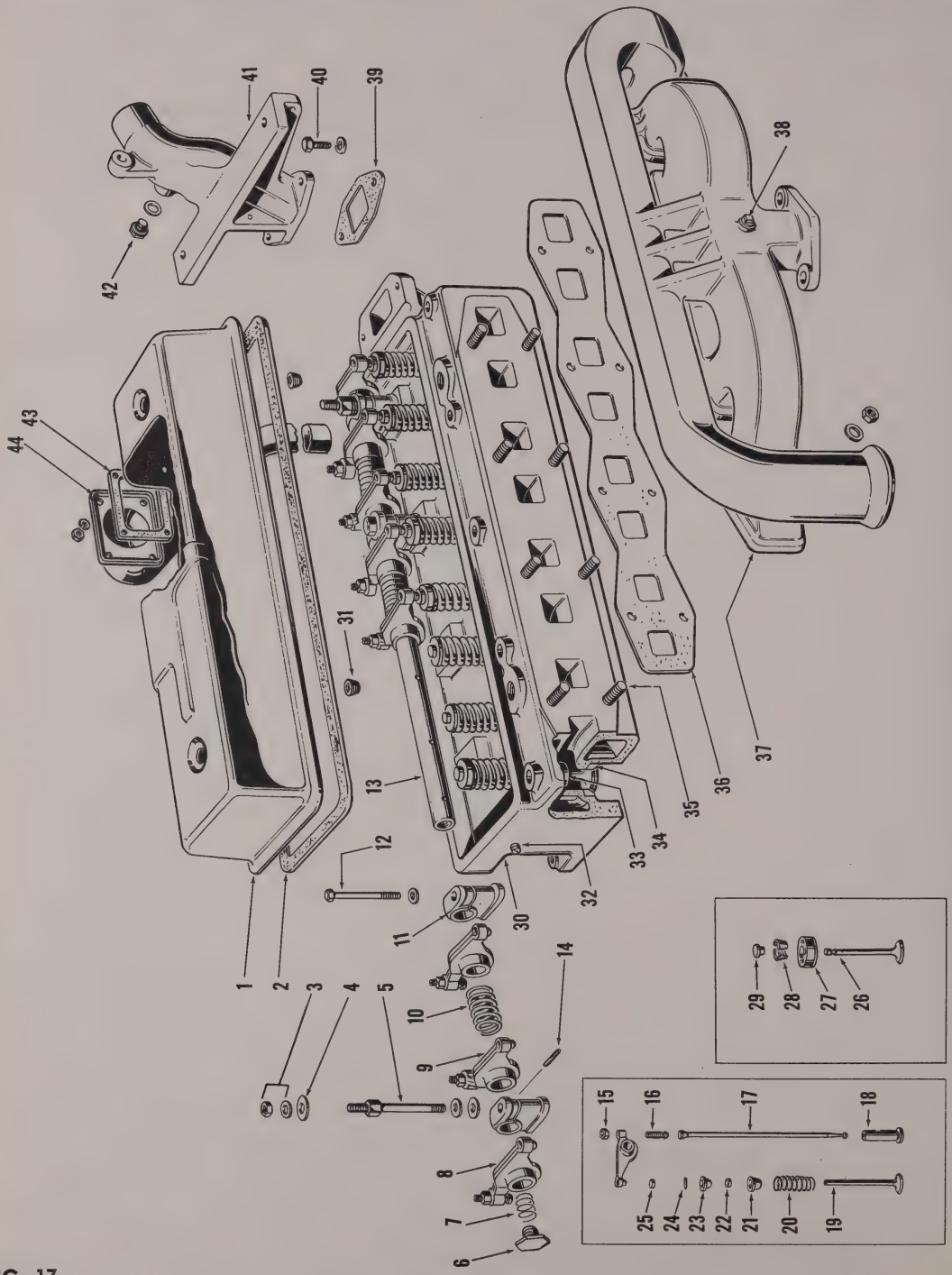
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FIG. 17

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	TE-20	FIG. 17 ENGINE-CYLINDER HEAD, VALVES AND RELATED PARTS—Cont'd.
25	Z120I-208	4	8	8	CAP - Valve Stem - Exhaust
	Z120T-140	-	1	1	KIT - Rotocap Valve Composed of Valves, Locks, Rotocap Assy. and Instructions
	Z129T-107	1	-	-	KIT - Rotocap Valve Composed of Valves, Locks, Rotocap Assy. and Instructions
26	Z120T-146	-	1	1	VALVE SET - Exhaust - Roto
	Z129T-108	1	-	-	VALVE SET - Exhaust - Roto
27	Z120I-3000	4	4	4	ROTO CAP ASSEMBLY
28	Z120I-235	8	8	8	LOCK - Valve Spring Retainer
29	Z129I-206	4	-	-	CAP - Valve Stem - Exhaust
30	Z120A-6012	-	1	1	HEAD ASSEMBLY - Cylinder Stripped
	Z129A-4022	1	-	-	HEAD ASSEMBLY - Cylinder Stripped Composed of Head and Push Rod Tubes not serviced and Items 31 thru 35
31	X-112	-	2	2	PLUG - Pipe - Cylinder Head Core Hole
	X-101-B	2	-	-	PLUG - Pipe - Cylinder Head Core Hole
32	X-120	1	1	1	PLUG - Pipe - Oil Gallery
33	Z129T-109	1	1	1	GUIDE SET - Valve Stem - Shown in Position
34	Z120A-205-L	-	4	4	INSERT-.010 O.S. Exhaust Valve Seat - Shown in Position
	Z129A-205-L	4	-	-	INSERT-.010 O.S. Exhaust Valve Seat - Shown in Position
35	X-19004-C	8	8	8	STUD - Cylinder Head Manifold
	38-104	8	8	8	WASHER - Flat - Cylinder Head Manifold Stud
	X-18067	8	8	8	NUT - Hex
36	Z120E-400	1	1	1	GASKET - Manifold to Cylinder Head
37	Z120E-500	-	-	1	MANIFOLD - Intake and Exhaust
	Z129E-5001	1	1	-	MANIFOLD ASSY. - Intake and Exhaust Composed of Manifold not serviced and
38	X-100	1	1	-	PLUG - Pipe
39	TO-8604	1	1	1	GASKET - Water Outlet Elbow
40	38-101-100	2	2	2	SCREW - Cap - Elbow to Cylinder Head
	38-14	2	2	2	WASHER - Lock
41	TO-8603	1	1	1	ELBOW - Water Outlet
42	TO-8605	1	1	1	PLUG - Water Outlet Elbow
	TO-8609	1	1	1	GASKET - Elbow Plug
43	Z129A-204	1	1	1	GASKET - Cover to Vent Tube
44	Z129A-3030	1	1	1	VENT TUBE & CAP - Cover
	25-14	4	4	4	WASHER - Lock - Vent Tube
	25-2103	4	4	4	NUT - Hex-Vent Tube to Cover
	Z120A-6011	-	1	1	SHORT CYLINDER HEAD ASSEMBLY
	Z129A-4021	1	-	-	SHORT CYLINDER HEAD ASSEMBLY Composed of Items 5 thru 16 and 19 thru 35

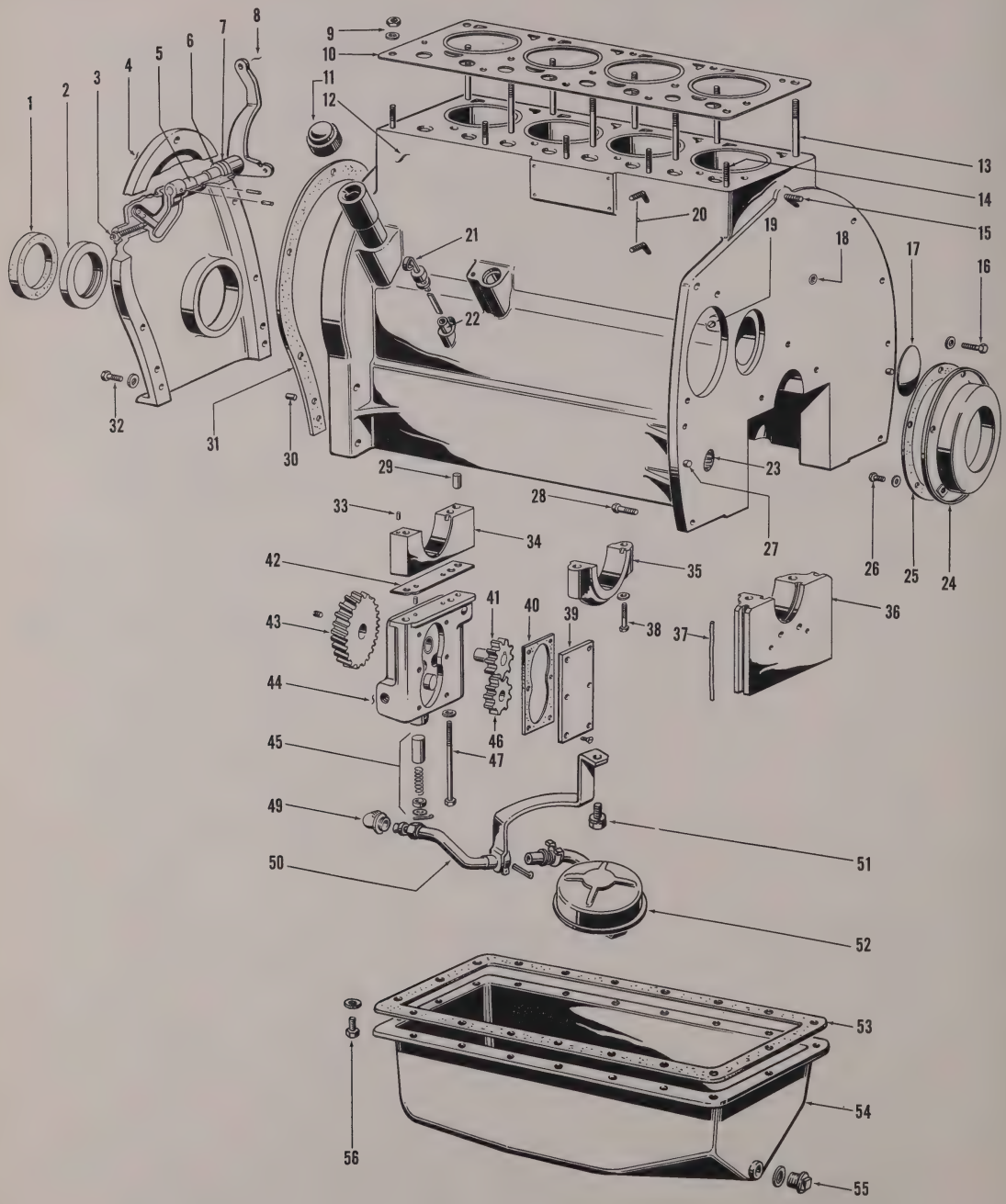
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FIG. 18

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	TE-20	FIG. 18 ENGINE-CYLINDER BLOCK, OIL PUMP AND RELATED PARTS
1	D600K-232	1	1	1	SEAL - Dust - Fan Drive Pulley - Front
2	A600L-202	1	1	1	SEAL - Oil - Crankshaft Bearing - Front
3	H260S-206	1	1	1	SCREW - Governor - Bumper Spring Adjusting
	25-2103	1	1	1	NUT - Governor Bumper Screw
4	Z120B-5002	1	1	1	COVER ASSEMBLY - Gear
					Composed of Cover not Serviced and
	N62S-202	1	1	1	SPRING - Governor Bumper - Shown in Position
	X-1418	2	2	2	RIVET - Spring to Gear Cover - Shown in Position
	X-17045	1	1	1	PIN - Stop - Needle Bearing
5	Z120S-202	2	2	2	BEARING - Needle - Governor Lever Shaft
6	D600S-207	1	1	1	SEAL - Oil - Governor Lever Shaft
7	Z120S-207	1	1	1	SEAL - Dust - Governor Lever Shaft
8	Z120S-3111	1	1	1	GOVERNOR CONTROL LEVER AND SHAFT ASSY.
					Composed of
	X-1791-A	-	1	1	PIN - Governor Lever to Shaft
	X-17040	1	1	1	PIN - Governor Rocker Arm to Shaft
9	44-003	13	13	13	NUT - Hex - Cylinder Head to Stud
	3X-X-1408	13	13	13	WASHER - Flat
10	Z120A-400	-	1	1	GASKET - Cylinder Head to Block
	Z129A-405	1	-	-	GASKET - Cylinder Head to Block
11	Z129L-2000	1	1	1	CAP - Oil Filler
	Z120L-3000	1	1	1	FILLER ASSEMBLY - Oil
12	Z120A-6002	-	1	1	CYLINDER BLOCK ASSEMBLY
	Z129A-6002	1	-	-	CYLINDER BLOCK ASSEMBLY
					Composed of Block and Crankshaft Bearing Caps not Serviced and Items 13 thru 15, 17 thru 20, 22, 23, 29, 33 thru 36, 38 & 47
13	X-4049	8	8	8	STUD - Cylinder Block to Head - Long
14	X-4160	5	5	5	STUD - Cylinder Block to Head - Short
15	X-19926	1	1	1	STUD - Cylinder Block to Trans. Case
16	X-3056	3	3	3	SCREW - Cap - Retainer to Block
	3X-X-13013	3	3	3	WASHER - Flat
17	X-2208	1	1	1	PLUG - Hubbard - Camshaft - Rear
18	X-137-A	2	2	2	PLUG - Socket Head - Both Ends
19	X-120	1	1	1	PLUG - Pipe
20	X-1901-A	2	2	2	STUD - Coil Bracket to Block
21	Z120L-2050	1	1	1	INDICATOR ASSEMBLY - Oil Level - Composed of
	K404L-210	1	1	1	WASHER - Felt - Collar
22	10EL-227	1	1	1	SUPPORT - Oil Level Indicator
23	S-10099	1	1	1	PLUG - Button - Timing Hole
24	G157B-2032	1	1	1	RETAINER AND SEAL ASSY. - Rear
25	VT-3250	1	1	1	GASKET - Oil Seal Retainer
26	X-3056	2	2	2	SCREW - Cap - Rear Cap to Retainer
	X-14109	2	2	2	GASKET - Copper
27	TO-6397	2	2	2	DOWEL - Cylinder Block to Trans. Case
28	44-101-125	6	6	6	SCREW - Cap - Cylinder Block to Trans. Case
	44-101-100	1	1	1	SCREW - Cap
29	7TC-215	1	1	1	DOWEL - Front Bearing Cap to Block
30	6EK-215	2	2	2	DOWEL - Gear Cover to Block
31	Z120B-402	1	1	1	GASKET - Gear Cover to Block
32	X-3253	1	1	1	SCREW - Cap - Gear Cover to Block
	X-3295	6	6	6	SCREW - Cap
	X-203	7	7	7	WASHER - Lock

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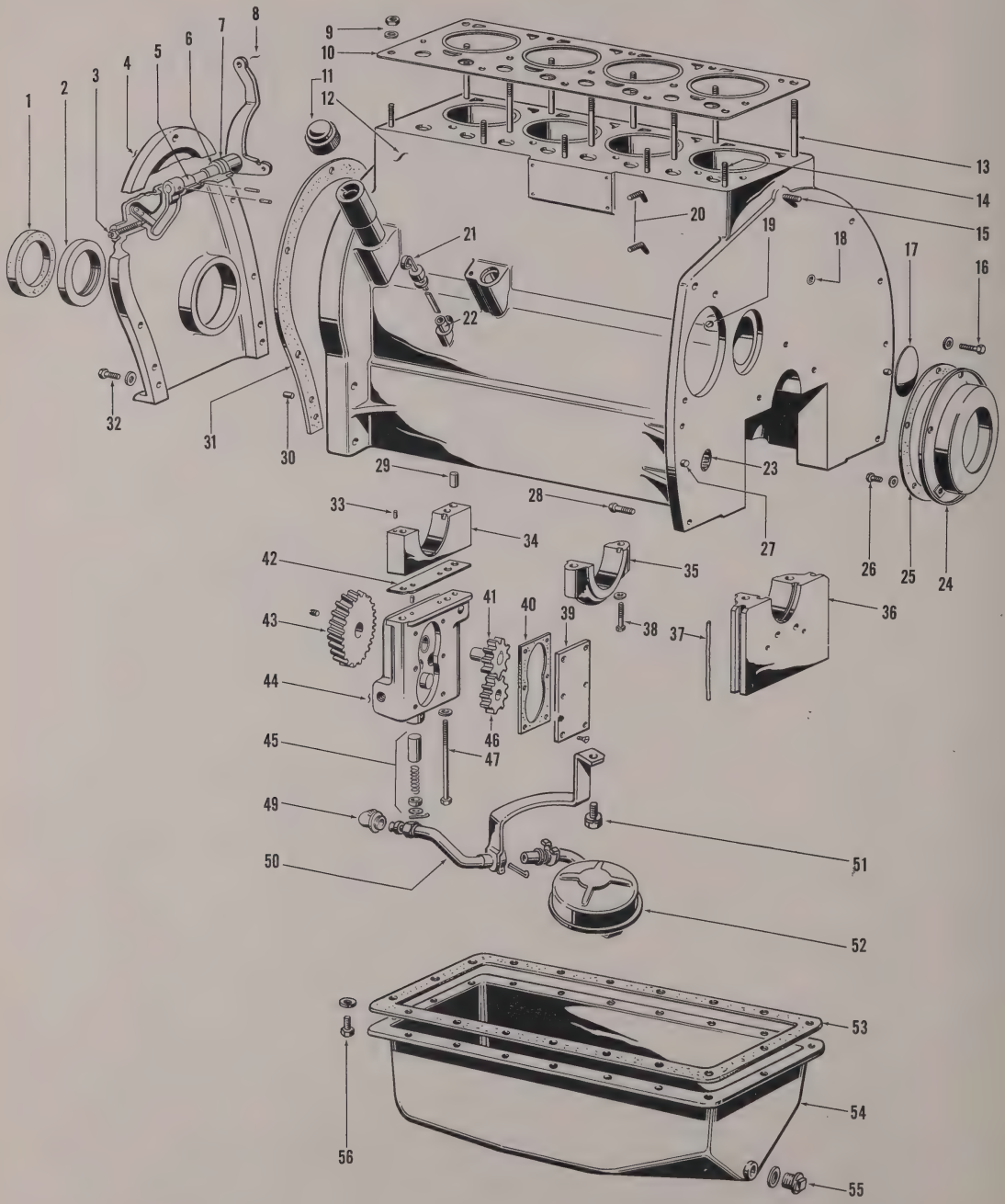
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FIG. 18

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	TE-20	FIG. 18 ENGINE-CYLINDER BLOCK, OIL PUMP AND RELATED PARTS—Cont'd.
33	X-1756	1	1	1	PIN - Front Bearing Cap to Block
34	Z120B-300	-	-	-	CAP - Crankshaft Bearing - Front - Not Serviced
35	Z120B-301	-	-	-	CAP - Crankshaft Bearing - Center - Not Serviced
36	Z120B-400	-	-	-	CAP - Crankshaft Bearing - Rear - Not Serviced
37	R600B-234	2	2	2	PACKING - Rear Bearing Cap
38	X-3555	4	4	4	SCREW - Cap - Center and Rear Caps to Block
	3X-B2B-110	4	4	4	WASHER - Plain
39	Z120L-200	1	1	1	COVER - Oil Pump Body
	X-3088	6	6	6	SCREW - Flat Hd. - Oil Pump Cover to Body
40	Z120L-204	1	1	1	GASKET - Oil Pump Cover to Body
41	Z120L-2010	1	1	1	GEAR AND SHAFT ASSY. - Oil Pump Driven
42	Z120L-206	As Req.	As Req.	As Req.	SHIM - Oil Pump Body to Front Bearing Cap
	X-17019	1	1	1	PIN - Oil Pump Body to Front Bearing Cap
43	Z120H-203	1	1	1	GEAR - Oil Pump Drive
	X-2979	1	1	1	SCREW
44	Z120L-4002	1	1	1	BODY ASSEMBLY - Oil Pump
					Composed of Body not serviced and
	X-2211	3	3	3	PLUG - Hubbard - Shown in Position
	H260G-200	2	2	2	BUSHING - Oil Pump Body - Shown in Position
	VT-3218	1	1	1	STUD - Oil Pump Idler Gear - Shown in Position
45	VT-3298	1	1	1	VALVE - Relief - Oil Pump Pressure
	F400L-223	1	1	1	SPRING - Oil Pump Pressure Valve
	VT-3221	1	1	1	RETAINER - Oil Pump Pressure Valve Spring
	X-619	1	1	1	PIN - Cotter
	W5L-213	As Req.	As Req.	As Req.	WASHER - Oil Pump Pressure Valve Spring
46	VT-3255	1	1	1	GEAR - Oil Pump Idler
47	X-3976	2	2	2	SCREW - Cap - Oil Pump Body to Block
	3X-B2B-110	2	2	2	WASHER - Plain
49	X-12423	1	1	1	ELBOW - Oil Inlet Tube to Pump
50	Z129L-4000	1	-	-	TUBE AND SUPPORT ASSEMBLY - Oil Strainer
					Composed of Tube not serviced and items 51, 52 and
	X-5193	1	-	-	NUT
	X-5194	1	-	-	SLEEVE
	X-619	1	-	-	PIN - Cotter
51	X-3899	1	-	-	SCREW AND WASHER ASSEMBLY
52	Z129L-3010	1	-	-	OIL STRAINER ASSEMBLY
53	Z120B-401	1	1	1	GASKET - Oil Pan to Cylinder Block
54	Z129B-5000	1	-	-	PAN ASSEMBLY - Oil
55	Z120B-203	1	-	-	PLUG - Drain - Oil Pan
	X-388	1	-	-	GASKET - Drain Plug
56	X-3896	18	-	-	SCREW ASSEMBLY - Oil Pan to Cylinder Block
	TO-8115	1	1	1	DRAIN - Cock - Water - Not Illustrated
	Z120U-103	-	1	1	GASKET - SET - Engine
	Z129U-102	1	-	-	GASKET SET - Engine
	Z120A-6005-T	-	1	1	SHORT BLOCK ASSEMBLY
	Z129A-6003-T	1	-	-	SHORT BLOCK ASSEMBLY
					Composed of Cylinder and Crankcase Assy. w/Pistons Rings, Rods, Gears, Cam and Crank

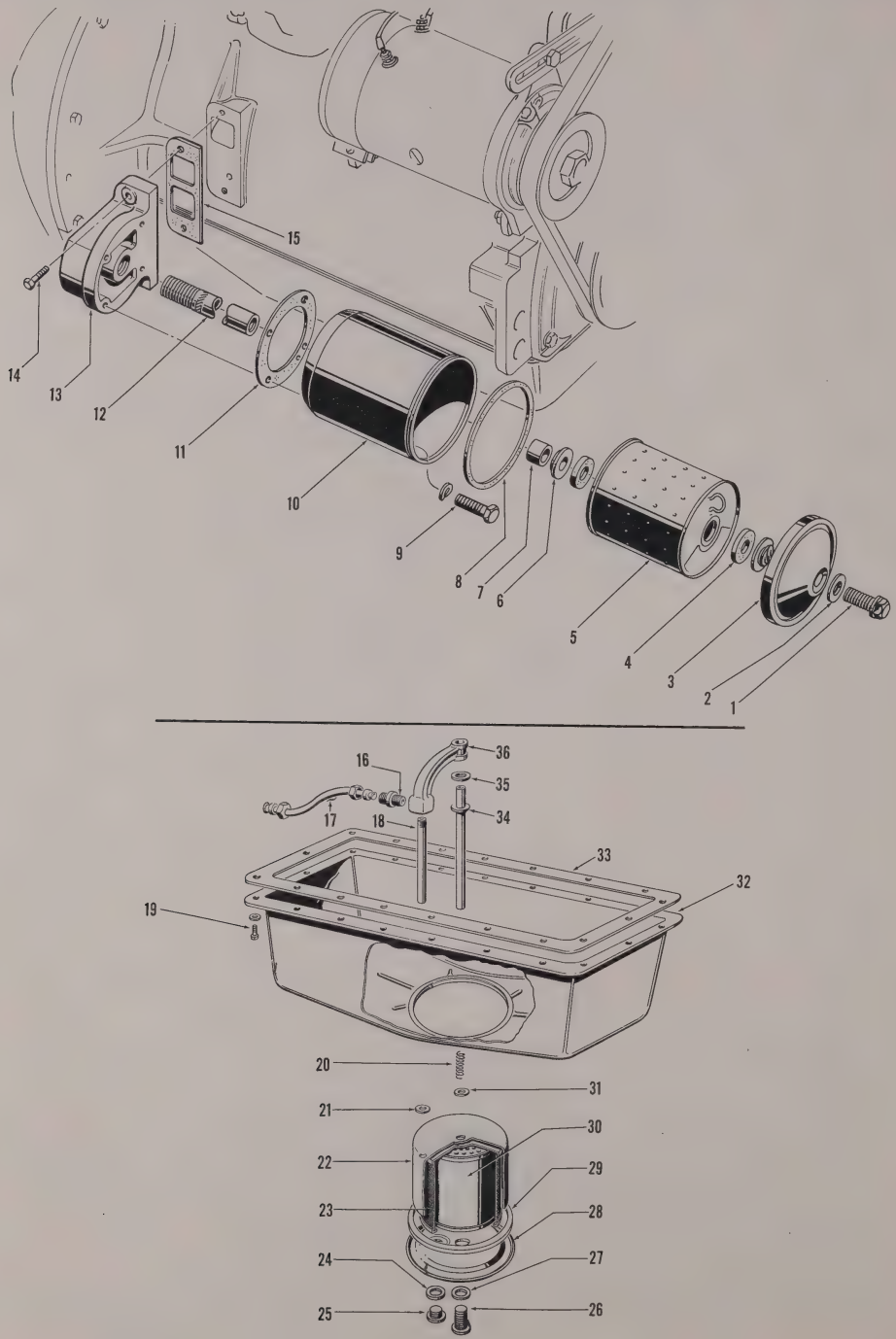
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FIG. 19

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	TE-20	FIG. 19 OIL FILTER AND RELATED PARTS
	TO-18660	1	-	-	OIL FILTER COVER AND BASE ASSY. - With Element Composed of Items 1 thru 13
1	TO-18691	1	-	-	SCREW - Cap Cover
2	TO-18675	1	-	-	GASKET - Cover Cap Screw
3	TO-18687	1	-	-	COVER ASSEMBLY - Oil Filter
4	TO-18689	-	-	-	GASKET - Oil Filter Element - Not Serviced Separately
5	TO-18662-A	1	-	-	ELEMENT - Oil Filter Composed of Element not Serviced separately and Items 4 and 8
6	TO-18648	1	-	-	WASHER - Center Tube
7	TO-18677	1	-	-	SPACER - Center Tube
8	TO-18688	-	-	-	GASKET - Filter Cover to Oil Filter - Not Serviced Separately
9	31-101-75	4	-	-	SCREW - Cap - Body to Base
	S-34906	4	-	-	WASHER - Lock
10	TO-18621	1	-	-	BODY - Oil Filter
	TO-18631	1	-	-	RING - Reinforcement - Shown in Position
11	TO-18695	1	-	-	GASKET - Oil Filter to Filter Base
12	TO-18647	1	-	-	TUBE - Oil Filter
13	TO-18665	1	-	-	BASE - Oil Filter
14	38-101-100	2	-	-	SCREW - Cap - Base to Cylinder Block
	38-14	2	-	-	WASHER - Lock
15	TO-18664	1	-	-	GASKET - Oil Filter Base to Cylinder Block
16	X-5195	-	1	-	CONNECTOR - Oil Inlet Tube to Support
17	Z120L-2030	-	1	1	TUBE ASSEMBLY - Oil Inlet Composed of Tube not serviced and
	X-5193	-	2	2	NUT - Oil Inlet Tube
	X-5194	-	2	2	SLEEVE - Oil Inlet Tube Nut
18	G157L-204	-	-	1	TUBE - Suction - Oil Filter - Up to Engine 48,067
	Z120L-213	-	1	1	TUBE - Suction - Oil Filter - 48,067 & Future for TE-20
19	X-3896	-	18	18	SCREW ASSEMBLY - Oil Pan to Cylinder Block
20	Z120I-205	-	1	1	SPRING - Oil Filter Cover
21	X-14232	-	1	1	WASHER - Felt - Oil Filter Suction Tube
22	G157L-304	-	1	1	COVER - Oil Strainer
23	Z120L-3040	-	1	1	SCREW ASSEMBLY - Oil Strainer
24	W4B-108	-	-	1	GASKET - Drain Plug - Up to Engine 48,067
	X-388	-	1	1	GASKET - Drain Plug - 48,067 & Future for TE-20
25	Z120B-200	-	-	1	PLUG - Drain - Oil Pan Cover to Engine 48,067
	Z120B-203	-	1	1	PLUG - Drain - Oil Pan Cover - 48,067 & Future for TE-20
26	Z120B-201	-	-	1	NUT - Hand Hole Cover to Engine 48,067
	Z120L-208	-	1	1	SCREW - Hand Hole Cover - Up to 48,067 & Future for TE-20
27	X-377	-	-	1	GASKET - Hand Hole Cover Nut to Engine 48,067
	X-320	-	1	1	GASKET - Hand Hole Cover Screw - 48,067 & Future for TE-20
28	G157B-3060	-	-	1	COVER ASSEMBLY - Hand Hold up to Engine 48067
	Z120B-3060	-	1	1	COVER ASSEMBLY - Hand Hold 48,067 & Future for TE-20
29	G157B-307	-	1	1	GASKET - Hand Hole Cover to Oil Pan
30	TO-18662-2	-	1	1	ELEMENT - Oil Filter
31	X-14231	-	1	1	WASHER - Felt - Oil Filter Tube
32	Z120B-5010	-	1	1	PAN ASSEMBLY - Oil
	Z120B-600	-	1	1	PAN ASSEMBLY - Oil - Cast Iron
33	Z120B-401	-	1	1	GASKET - Oil Pan to Cylinder Block
34	G157L-2000	-	-	1	TUBE ASSEMBLY - Oil Filter up to Engine 48,067
	Z120L-2070	-	1	1	TUBE ASSEMBLY - Oil Filter 48,067 & Future for TE-20
35	X-14260	-	1	1	WASHER - Oil Filter Tube to Support
36	G157L-205	-	1	1	SUPPORT - Oil Pump Inlet Tube

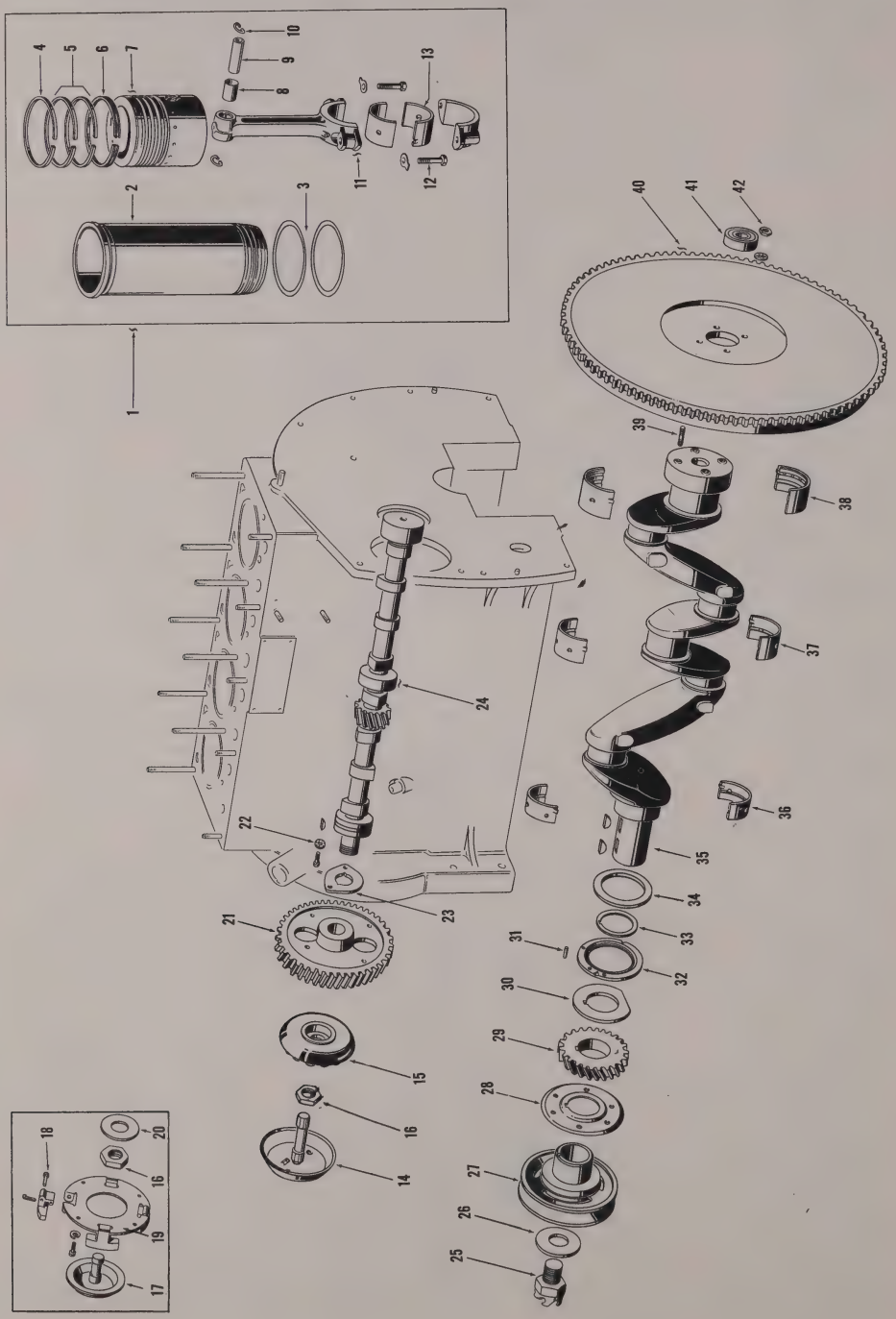
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FIG. 20

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	TE-20	FIG. 20 ENGINE—PISTON, CONNECTING RODS, CAM AND CRANKSHAFTS
	Z120T-101	-	1	1	SLEEVE AND PISTON KIT - Set of Four Composed of Items 2 thru 10 which Includes Standard Ring Kits
1	Z129T-102	1	-	-	SLEEVE AND PISTON KIT - Set of Four Composed of Items 2 thru 10 which Includes Standard Ring Kits
2	Z120A-300	-	-	-	SLEEVE - Not Serviced - Order Z120T-101
	Z129A-300	-	-	-	SLEEVE - Not Serviced - Order Z129T-102
3	Z120A-201	2	2	2	PACKING - Cylinder Sleeve
	Z120T-103	-	1	1	PISTON Ring Kit - Standard
	Z129T-113	1	-	-	PISTON Ring Kit - Standard - Not Serviced Composed of Items 4,5 & 6
4		4	4	4	RING - Piston - First Groove - Not Serviced
5		8	8	8	RING - Piston - Second and Third Groove - Not Serviced
6		4	4	4	RING - Piston - Fourth - Groove - Not Serviced
	Z120T-147	-	1	1	PISTON RING KIT - Chrome Plated Rings Composed of Items 4,5,6 and Expander Spring for Fourth Groove - Not Serviced Individually
	Z129T-119	1	-	-	PISTON RING KIT - Chrome Plated Rings Composed of Items 4,5,6 and Expander Spring For Fourth Groove - Not Serviced Individually
7	Z120A-401	-	-	-	PISTON - Not Serviced - Order Z120T-101
	Z129A-400	-	-	-	PISTON - Not Serviced - Order Z129T-102
8	F400G-211	1	1	1	BUSHING - Piston Pin
9	Z120A-204	1	1	1	PIN - Piston
	Z120A-204-K	As Req.	As Req.	As Req.	PIN - Piston - .003 O.S.-Not Part of Kit
10	6SA-101	2	2	2	RING - Piston Pin Retaining
11	Z120T-122	4	4	4	ROD AND CAP KIT - Connecting Composed of Rod and Cap not Serviced and Item 12
12	Z120D-200	2	2	2	LOCK - Connecting Rod Bolt
	Z120D-201	2	2	2	BOLT - Connecting - Rod and Cap
	Z120T-104	1	1	1	BEARING KIT - Connecting Rod - Standard set of 8 Halves
	Z120T-153-002	As Req.	As Req.	As Req.	BEARING KIT - Connecting Rod -.002 U.S. - 1 Pair
13	Z120T-153-010	As Req.	As Req.	As Req.	BEARING KIT - Connecting Rod -.010 U.S. - 1 Pair
	Z120T-153-020	As Req.	As Req.	As Req.	BEARING KIT - Connecting Rod -.020 U.S. - 1 Pair
	Z120S-3080	1	1	1	GOVERNOR ASSEMBLY - Complete Replacement on TO-20 and TE-20 Composed of Items 14 and 15
14	Z120S-3070	1	1	-	SHAFT AND UPPER RACE ASSEMBLY
15	Z120S-2220	1	1	-	DRIVER ASSEMBLY
16	X-18225	1	1	1	NUT - Lock - Camshaft Timing Gear to Camshaft
17	VTA-803	-	1	1	CUP AND SHAFT ASSEMBLY - Governor
	Y400S-2340	-	4	4	WEIGHT - Governor
18	F-124S-214	-	4	4	PIN - Clevis - Governor Weight to Plate
	X-608	-	4	4	PIN - Cotter
	Y400S-311	-	1	1	PLATE - Governor Weight
19	X-3935	-	4	4	SCREW - Round Head - Weight Plate to Camshaft Gear
	19-14	-	4	4	WASHER - Lock
20	12CH-208	-	1	1	WASHER - Camshaft Timing Gear
	Z120H-301	1	1	1	GEAR - Camshaft Timing - Standard
	Z120H-301+001	As Req.	As Req.	As Req.	GEAR - Camshaft Timing - .001 O.S.
21	Z120H-301-001	As Req.	As Req.	As Req.	GEAR - Camshaft Timing - .001 U. S.
	Z120H-301+002	As Req.	As Req.	As Req.	GEAR - Camshaft Timing - .002 O. S.
	Z120H-301-002	As Req.	As Req.	As Req.	GEAR - Camshaft Timing - .002 U. S.
22	X-3203	2	2	2	SCREW - Cap - Thrust Plate to Block
	X-210-A	2	2	2	WASHER - Lock
23	Y400I-203	1	1	1	PLATE - Thrust - Camshaft

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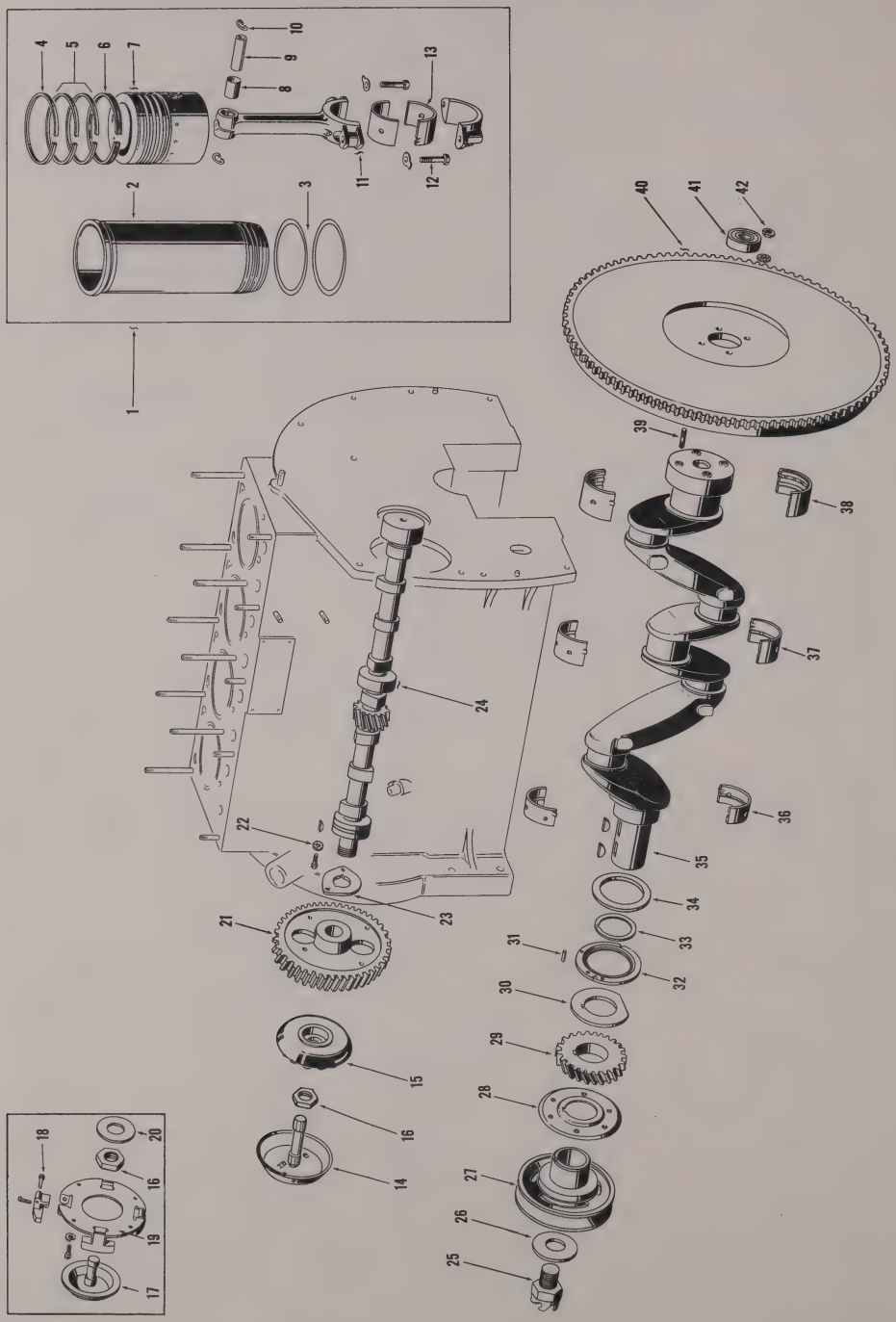
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FIG. 20

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	TE-20	FIG. 20 ENGINE—PISTON, CONNECTING RODS, CAM AND CRANKSHAFTS —Cont'd.
24	Z120I-402	-	1	1	CAMSHAFT
	Z129I-500	1	-	-	CAMSHAFT
	X-506	1	1	1	KEY - Woodruff - Timing Gear to Camshaft
25	Z120-0-200	1	1	1	JAW - Crankshaft Starting
26	X-14240	1	1	1	WASHER - Plain - Starting Jaw to Crankshaft
27	Z120K-313	1	1	1	PULLEY - Crankshaft Fan Drive
28	A600C-204	1	1	1	THROWER - Oil - Crankshaft
29	Z120H-300	1	1	1	GEAR - Crankshaft Timing - Standard
	Z120H-300+001	As Req.	As Req.	As Req.	GEAR - Crankshaft Timing - .001 O. S.
	Z120H-300-001	As Req.	As Req.	As Req.	GEAR - Crankshaft Timing - .001 U. S.
	Z120H-300+002	As Req.	As Req.	As Req.	GEAR - Crankshaft Timing - .002 O. S.
	Z120H-300-002	As Req.	As Req.	As Req.	GEAR - Crankshaft Timing - .002 U. S.
30	Z120C-200	1	1	1	PLATE - Thrust - Crankshaft
31	6TG-101	3	3	3	PIN - Thrust Washer to Block
32	D600C-204	1	1	1	WASHER - Thrust - Crankshaft
33	10EC-204	As Req.	As Req.	As Req.	SHIM - .002 Thick - Crankshaft Thrust
	10EC-205	As Req.	As Req.	As Req.	SHIM - .008 Thick
34	Z129C-202	1	-	-	WASHER - Thrust - Bearing to Crankshaft
35	Z120C-500	-	1	1	CRANKSHAFT
	Z129C-500	1	-	-	CRANKSHAFT
	X-534	2	2	2	KEY - Woodruff - Pulley and Gear to Crankshaft
	Z120T-149	-	1	1	BEARING KIT - Crankshaft - Complete Composed of Front, Center and Rear Std. Bearings
	Z129T-105	1	-	-	BEARING KIT - Crankshaft - Complete Composed of Front, Center, Rear Std. Bearings and Item 34
36	Z129T-118	1	1	1	BEARING SET - Front - 1 Pair - Reference 34 must be used with Reference 36 on TO-20 and TE-20
	Z129T-118-002	As Req.	As Req.	As Req.	BEARING SET - Front - 1 Pair - .002 U. S.
	Z129T-118-010	As Req.	As Req.	As Req.	BEARING SET - Front - 1 Pair - .010 U. S.
	Z129T-118-020	As Req.	As Req.	As Req.	BEARING SET - Front - 1 Pair - .020 U. S.
37	Z120T-150	1	1	1	BEARING SET - Center - 1 Pair - Standard
	Z120T-150-002	As Req.	As Req.	As Req.	BEARING SET - Center - 1 Pair - .002 U. S.
	Z120T-150-010	As Req.	As Req.	As Req.	BEARING SET - Center - 1 Pair - .010 U. S.
	Z120T-150-020	As Req.	As Req.	As Req.	BEARING SET - Center - 1 Pair - .020 U. S.
38	Z120T-152	1	1	1	BEARING SET - Rear - 1 Pair - Standard
	Z120T-152-002	As Req.	As Req.	As Req.	BEARING SET - Rear - 1 Pair - .002 U. S.
	Z120T-152-010	As Req.	As Req.	As Req.	BEARING SET - Rear - 1 Pair - .010 U. S.
	Z120T-152-020	As Req.	As Req.	As Req.	BEARING SET - Rear - 1 Pair - .020 U. S.
39	X-4053	4	4	4	STUD - Flywheel to Crankshaft
40	Z120C-4000	-	-	1	FLYWHEEL ASSEMBLY
	Z120C-4020	1	1	-	FLYWHEEL ASSEMBLY Composed of Flywheel Not Serviced and
	Z120C-300	1	1	1	GEAR - Starter Ring
41	S-9854	1	1	1	BEARING - Pilot - Clutch - Alternate of S-9920
	S-9920	1	1	1	BEARING - Alternate of S-9854
42	X-1899	4	4	4	NUT - Hex - Flywheel to Crankshaft Stud
	X-297-B	4	4	4	WASHER - Lock

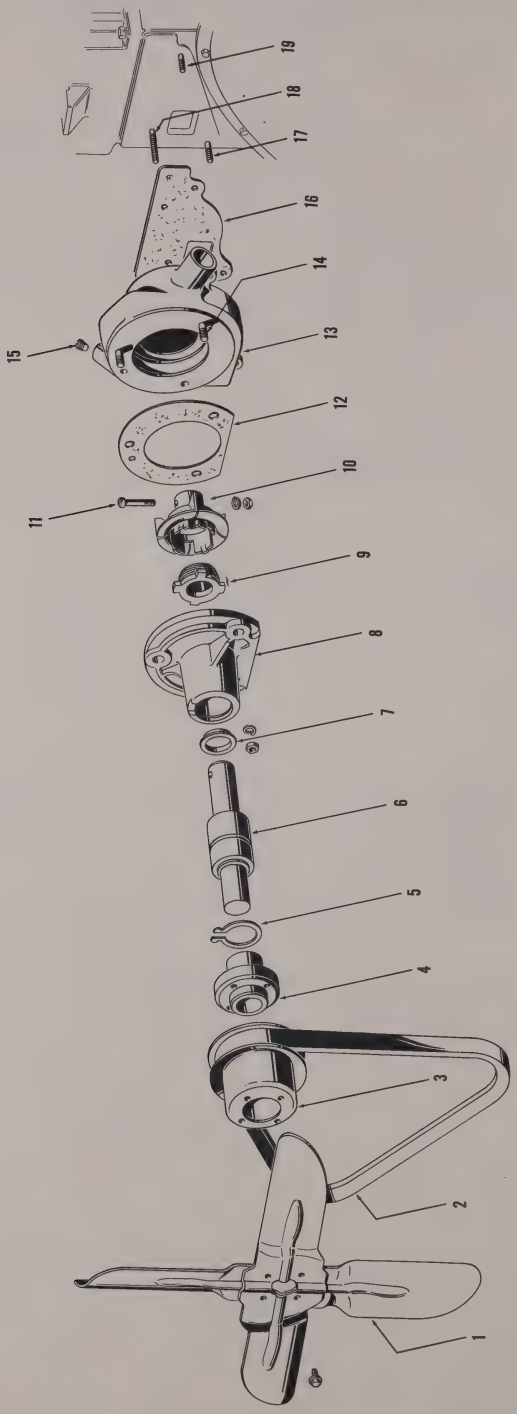

FIG. 21

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 21 WATER PUMP ASSEMBLY
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
		For Illustration covering TE-A Water Pump See Fig. 43						
1	TO-8600-1	1	1	-	1	-	-	FAN ASSEMBLY
	X-3897	4	4	-	4	-	-	SCREW AND LOCKWASHER ASSEMBLY - Fan to Pulley Hub
2	TO-8620	1	1	-	1	-	-	BELT - Fan
3	Z120K-310	1	1	-	1	-	-	PULLEY - Fan
	Z120K-3051	1	1	-	1	-	-	WORKS ASSEMBLY - Water Pump Composed of Items 4 thru 11
4	Z120K-211	1	1	-	1	-	-	HUB - Water Pump Fan - w/Item 3 for TE-20
5	VT-3327	1	1	-	1	-	-	RING - Snap - Bearing Drive Shaft
6	G157K-2060	1	1	-	1	-	-	SHAFT AND BEARING ASSEMBLY - Drive
7	VT-3326	1	1	-	1	-	-	SLINGER - Drive Shaft
8	Z120K-3050	1	1	-	1	-	-	SUPPORT ASSEMBLY - Drive Shaft
9	VTA-804	1	1	-	1	-	-	SEAL ASSEMBLY - Water Pump
10	Z120K-3060	1	1	-	1	-	-	IMPELLER ASSEMBLY - Water Pump
	Z120K-314	1	1	-	1	-	-	IMPELLER ASSEMBLY - Water Pump - Optional with Z120K-3060
11	X-3960	1	1	-	1	-	-	SCREW - Filister Head - Impeller to Shaft
	2X-X-260	1	1	-	1	-	-	WASHER - Lock
	X-18272	1	1	-	1	-	-	NUT - Hex
12	Z120K-205	1	1	-	1	-	-	GASKET - Support to Body
13	Z120K-5002	1	1	-	1	-	-	BODY ASSEMBLY - Water Pump Composed of body not serviced and Item 14
14	X-19004-C	2	2	-	2	-	-	STUD - Body to Support
	X-203	2	2	-	2	-	-	WASHER - Lock
	X-18080	2	2	-	2	-	-	NUT - Hex
15	X-120	-	1	-	1	-	-	PLUG - Pipe - Water Pump Body
16	Z120K-304	1	1	-	1	-	-	GASKET - Water Pump Body to Block
17	X-19003	1	1	-	1	-	-	STUD - Water Pump Support and Body to Block
18	X-4046	1	1	-	1	-	-	STUD - Water Pump Body to Block
19	X-4217	1	1	-	1	-	-	STUD - Water Pump Body to Block

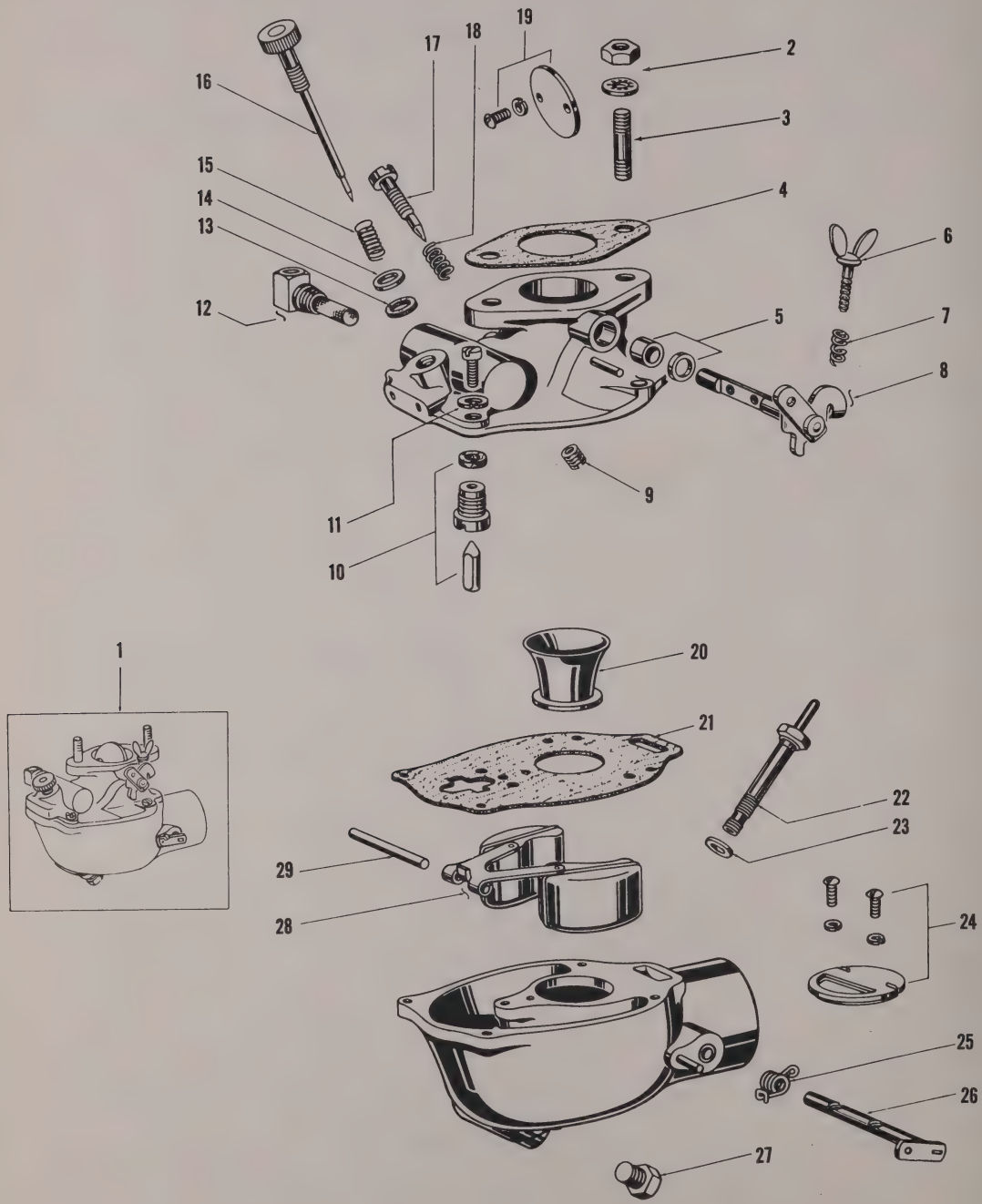

FIG. 22

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	FIG. 22 CARBURETOR ASSEMBLY
		For Illustration covering TE-A Carburetor See Fig. 44						
1	TO-9510-A	-	1	-	1	-	-	CARBURETOR ASSEMBLY
	TO-9510-B1	1	-	-	-	-	-	CARBURETOR ASSEMBLY Composed of Items 4 thru 29
2	S-33783	2	2	-	2	-	-	NUT - Hex - Carburetor to Manifold
	S-34906	2	2	-	2	-	-	WASHER - Lock
3	S-88367	2	2	-	2	-	-	STUD - Threaded
4	TO-9447	1	1	-	1	-	-	GASKET - Carburetor to Manifold
5	TO-9591	1	1	1	1	-	-	RETAINER - Shaft Packing } Must be used
	TO-9622	1	1	1	1	-	-	PACKING - Shaft Retainer ∫ together
	TO-D9622	1	1	1	1	-	-	PACKING - Shaft Retainer - Alternate of TO-9622
6	TO-9610-A	1	1	1	1	-	-	SCREW - Throttle Adjusting - Service w/TO-9589-A
7	TO-9589-A	1	1	1	1	-	-	SPRING - Throttle Adjusting Screw - Service w/TO-9610-A
8	TO-9581	1	1	-	1	-	-	SHAFT AND LEVER ASSEMBLY - Throttle
9	TO-9596-A	-	1	1	1	-	-	JET - Idle
	TO-D9596	1	-	-	-	-	-	JET - Idle
10	TO-9564	1	1	1	1	-	-	VALVE ASSEMBLY - Matched Float
11	S-43368	4	4	4	4	-	-	SCREW & LOCKWASHER - Upper to Lower Body
12	TO-9553	1	1	1	1	-	-	ELBOW AND STRAINER ASSEMBLY
13	TO-9563	1	1	1	1	-	-	GASKET - Main Adjusting Needle
14	S-356211	1	1	1	1	-	-	WASHER - Main Adjusting Needle
15	TO-9540	1	1	1	1	-	-	SPRING - Main Adjusting Needle
16	TO-9565	1	1	-	1★	-	-	NEEDLE ASSEMBLY - Main Adjusting
17	TO-9541	1	1	1	1	-	-	NEEDLE - Idle Adjusting
18	TO-9578	1	1	1	1	-	-	SPRING - Idle Adjusting Needle
19	TO-9585	1	1	1	1	-	-	FLY - Throttle
	S-355000	2	2	2	2	-	-	SCREW & LOCKWASHER - Throttle Fly
20	TO-9586	-	1	-	1	-	-	VENTURI - Carburetor
	TO-9586-A	1	-	-	-	-	-	VENTURI - Carburetor
21	TO-9519	1	1	1	1	-	-	GASKET - Throttle Body to Bowl
22	TO-9530-A	-	1	-	1	-	-	NOZZLE - Main
	TO-9530-B	1	-	-	-	-	-	NOZZLE - Main
23	TO-9608	-	1	1	1	-	-	GASKET - Main Nozzle
	TO-D9608	1	-	-	-	-	-	GASKET - Main Nozzle
24	TO-9549	1	1	1	1	-	-	FLY ASSEMBLY - Choke
	S-355000	2	2	2	2	-	-	SCREW & LOCKWASHER - Choke Fly
25	TO-9539	1	1	1	1	-	-	SPRING - Choke Shaft Retainer
26	TO-9546	1	1	1	-	-	-	SHAFT & LEVER ASSEMBLY - Choke
	TO-9547	1	1	1	1	-	-	RETAINER - Choke Shaft - Shown in Position
	TO-9548	1	1	1	1	-	-	PACKING - Choke Shaft
27	S-358043	1	1	1	1	-	-	PLUG - Drain - Carburetor Bowl
28	TO-9550	1	1	1	1	-	-	FLOAT & LEVER ASSEMBLY
29	TO-9558	1	1	1	1	-	-	PIN - Pivot - Float
	TO-9533-A	-	1	-	1	-	-	JET - Maximum Fuel Limiting
	TO-9514	1	1	-	1	-	-	PLUG - Drill
	TO-18375-A	-	1	-	1	-	-	SERVICE KIT - Carburetor - Complete
	TO-D18375	1	-	-	-	-	-	SERVICE KIT - Carburetor - Complete
	TO-18376	-	1	-	1	-	-	GASKET KIT - Carburetor
	TO-D18376	1	-	-	-	-	-	GASKET KIT - Carburetor
		★TE-20 Service Items - Not Illustrated						
16	24-501	-	-	-	1	-	-	RATCHET - Main Adjusting Needle
	TO-9694	-	-	-	1	-	-	STRAINER - Felt Drain Bowl
	TO-9692	-	-	-	1	-	-	PLUG - Bowl Strainer

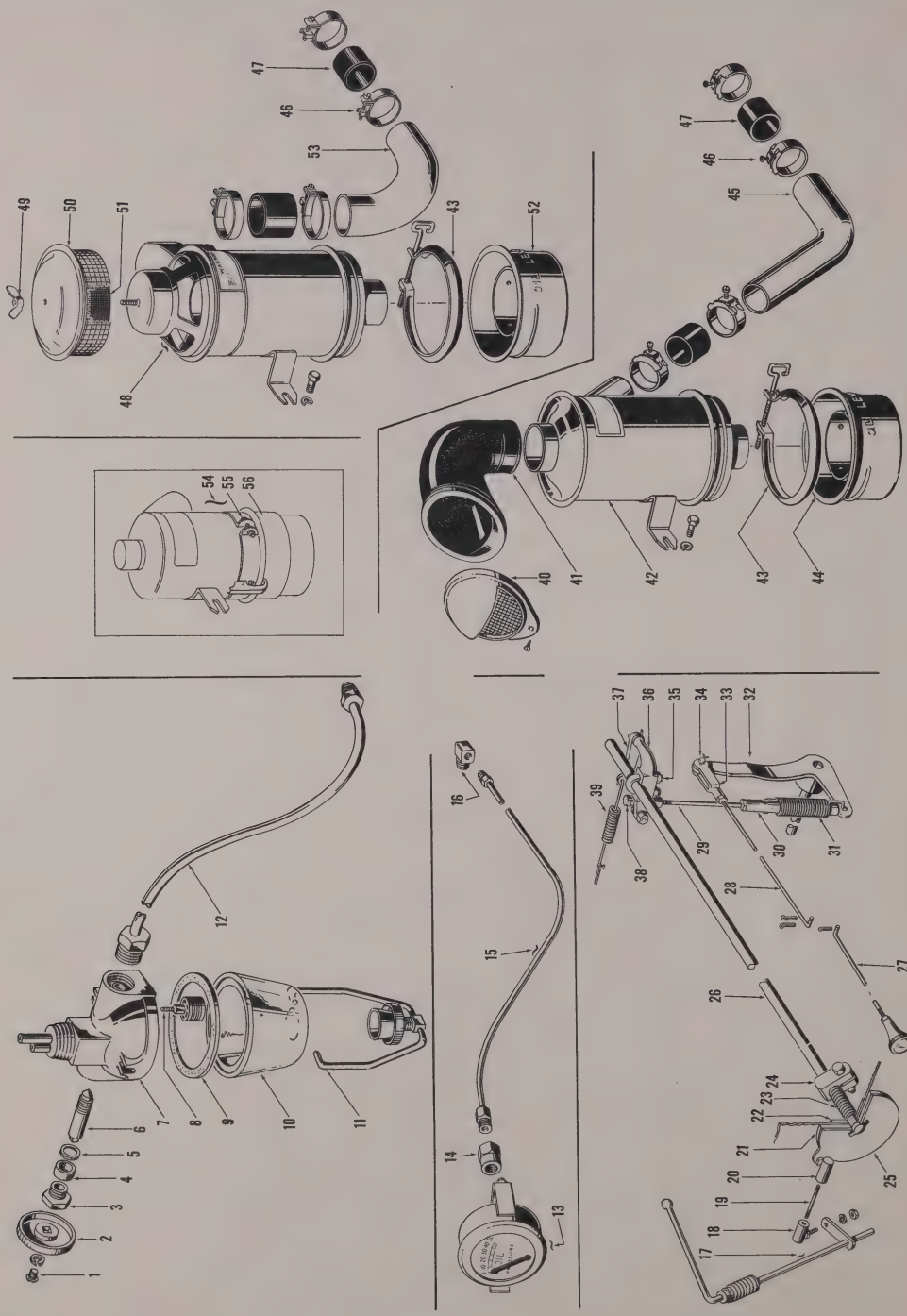
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FIG. 23

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 23 AIR CLEANER, FUEL FILTER, OIL GAUGE AND CONTROL RODS
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
	TO-9155-3	1	1	-	★	★	★	FILTER ASSEMBLY - Fuel
								Composed of Items 1 thru 11 and
	TO-9170-A	-	1	-	-	-	-	VALVE ASSEMBLY - Transfer
								Composed of Items 1 thru 6
1	S-34801	1	1	-	-	-	-	WASHER - Lock
	TO-9173	1	1	-	-	-	-	SCREW - Fuel Filter Valve Stem
2	TO-9158	1	1	-	-	-	-	WHEEL - Fuel Valve Control
3	TO-9172	1	1	-	-	-	-	NUT - Fuel Filter Packing
4	TO-9186-B	1	1	-	-	-	-	PACKING - Fuel Filter Valve Stem
5	TO-9178-A	1	1	-	-	-	-	WASHER - Fuel Filter Valve Stem
	TO-9178	-	1	-	1	-	-	WASHER - Transfer Valve
6	TO-9194	1	1	-	-	-	-	STEM - Fuel Filter
7	TO-9143	1	1	-	★	★	★	BODY - Fuel Filter
8	TO-9161	1	1	-	★	★	★	STRAINER - Fuel Filter
9	TO-9160	-	1	-	★	★	★	GASKET - Filter Body to Bowl
	TO-9160-A	1	1	-	-	-	-	GASKET - Filter Body to Bowl
10	TO-9162	-	1	-	★	★	★	BOWL - Sediment - Fuel Filter
	TO-9162-A	1	1	-	-	-	-	BOWL - Sediment - Fuel Filter
11	TO-9166	-	1	-	★	★	★	BAIL ASSEMBLY - Fuel Filter Bowl
	TO-9166-A	1	1	-	-	-	-	BAIL ASSEMBLY - Fuel Filter Bowl
12	TO-9282-A1	1	1	-	1	★	★	TUBE ASSEMBLY - Fuel Line
								Composed of Tube not serviced and
	S-10106	2	2	-	2	-	★	NUT - Fuel Line
13	TO-9273	1	1	-	1	★	★	GAGE ASSEMBLY - Oil Pressure
14	S-10103	1	1	-	1	-	-	CONNECTOR - Oil Pressure Gage Line
15	TO-18676	-	1	-	1	★	★	TUBE ASSEMBLY - Oil Pressure Gage
	TO-18676-A	1	-	-	-	-	-	TUBE ASSEMBLY - Oil Pressure Gage
								Composed of Tube not serviced and
	S-10104	2	2	-	2	-	-	NUT - Oil Pressure Gage Line
16	S-10105	1	1	-	1	-	-	ELBOW - Oil Pressure Gage Line
17	TO-9808	1	1	-	1	1	1	LEVER ASSEMBLY - Throttle Control
18	TO-9876	1	1	-	★	★	★	JOINT - Ball Throttle Control Lever
	25-14	1	1	-	1	1	1	WASHER - Lock - Ball Joint
	25-1003	1	1	-	1	1	1	NUT - Hex Jam
19	TO-9813	1	1	-	★	★	★	ROD - Throttle Control Link
20	TO-9832	1	1	-	★	★	★	JOINT - Ball - Throttle Control Rod
21	TO-9830	1	1	-	1	1	1	WASHER - Cork Throttle Rod Plate
22	TO-9836	1	1	-	1	1	1	WASHER - Throttle Rod
23	TO-9806	1	1	-	1	1	1	SPRING - Throttle Rod
24	TO-9809	1	1	-	1	1	1	CLAMP - Throttle Rod
	31-001-94	1	1	-	1	1	1	BOLT - Hex Head - Throttle Rod Clamp
	31-003	1	1	-	1	1	1	NUT - Hex
25	TO-9829-A	1	1	-	1	-	-	PLATE ASSEMBLY - Throttle Control - w/TO-9802-A for TE-20
26	TO-9802-A	1	1	-	1	★	★	ROD - Throttle Control - w/TO-9829-A for TE-20
27	TO-9700	1	1	-	1	★	★	ROD ASSEMBLY - Choke Control
								Composed of Rod not serviced and
	TO-9703	1	1	-	1	1	1	KNOB - Choke Control Rod
	TO-9704	1	1	-	1	1	1	NUT - Hex - Choke Control Rod
28	TO-9823	1	1	-	1	★	★	ROD - Control - Governor Lever to Carburetor
	06-05-50	2	2	-	2	2	2	PIN - Cotter
29	TO-9815	1	1	-	1	★	★	ROD - Governor Lever Arm
	25-2103	1	1	-	1	1	1	NUT - Hex Machine - Lever Arm Rod
30	TO-9816	1	1	-	1	1	★	PLUNGER - Throttle Control
31	TO-18196	1	1	-	1	★	★	SPRING - Throttle Control Plunger
32	Z120S-3111	1	1	-	1	★	★	LEVER ASSEMBLY - Governor
33	S-97011	1	1	-	1	★	★	YOKE - Carburetor Control Rod
	25-003	1	1	-	1	1	1	NUT - Hex - Control Rod Yoke
34	25-15-80	1	1	-	1	★	★	PIN - Clevis - Yoke to Governor Lever
	06-05-50	1	1	-	1	1	1	PIN - Cotter
35	TO-9835	1	1	-	1	1	1	U-BOLT - Governor Linkage Rocker
	31-14	2	2	-	2	2	2	WASHER - Lock - Throttle Rod to Rocker
	31-003	2	2	-	2	2	2	NUT - Hex

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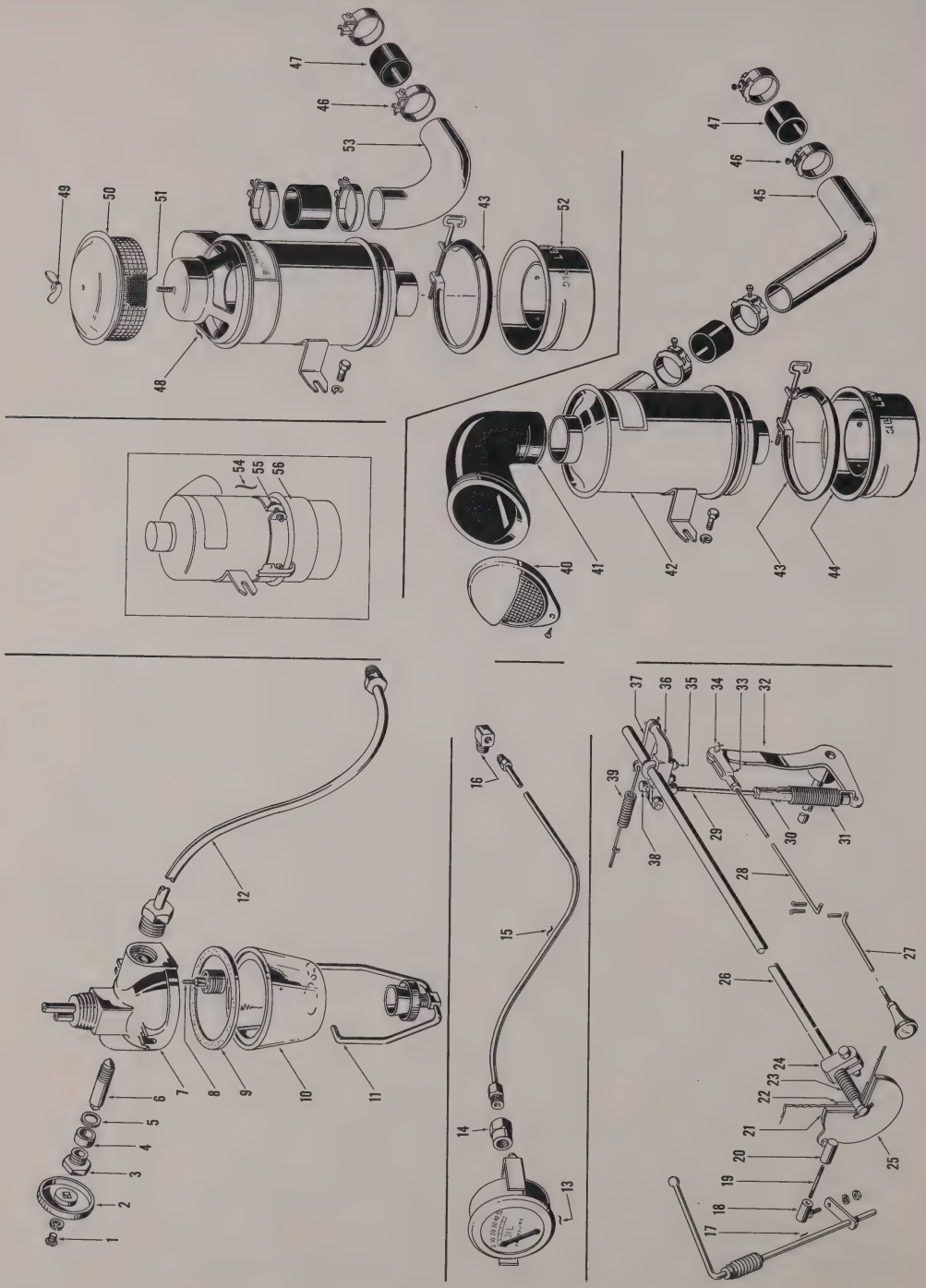
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FIG. 23

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 23 AIR CLEANER, FUEL FILTER, OIL GAUGE AND CONTROL RODS—Cont'd.
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
36	TO-9834	1	1	-	1	★	★	ROCKER - Governor Linkage
37	TO-9803	1	1	-	1	1	1	LINK - Governor Compensator Spring
	09-05-50	1	1	-	1	1	1	PIN - Cotter - Link to Rocker
38	TO-9876	1	1	-	1	1	1	JOINT - Ball - Throttle Control
39	TO-9827	1	1	-	1	★	★	SPRING - Governor Compensator
	19-05-50	1	1	-	1	1	1	PIN - Cotter - Governor Compensator Spring
40	TO-9611	1	-	-	-	-	★	SCREEN - Air Inlet
	TO-9615	1	-	-	-	-	★	COVER - Air Inlet
	TO-9613-1	1	-	-	-	-	★	SCREW - Air Inlet - Cover to Instrument Panel
41	TO-9614	1	-	-	-	-	★	HOSE - Air Inlet - Rubber
42	TO-9600-B1	1	-	-	-	-	★	AIR CLEANER ASSEMBLY - Optional with TO-9600-B2 Composed of Body not serviced and Items 43 and 44
43	TO-9628	1	1	-	★	★	★	CLAMP ASSEMBLY - Oil Cup
44	TO-9658-B	1	-	-	-	-	-	CUP - Oil
	44-001-75	2	2	-	2	2	2	BOLT - Hex Head - Air Cleaner to Platform
	44-14	2	2	-	2	2	2	WASHER - Lock
45	TO-18215-B	1	-	-	-	-	-	TUBE - Air Cleaner to Carburetor
46	S-10085	4	4	-	4	★	★	CLAMP - Hose - Air Cleaner Tube
47	TO-9652	-	2	-	2	★1	★1	HOSE - Air Cleaner to Carburetor
	TO-9652-A	2	-	-	-	-	-	HOSE - Air Cleaner to Carburetor
48	TO-9600	-	1	-	1	★	★	AIR CLEANER ASSEMBLY Composed of Body not serviced and Items 43 and 49 thru 52
49	S-355940	-	1	1	1	1	1	NUT - Wing - Air Cleaner Cover
50	TO-9602	-	1	-	★	★	★	COVER ASSEMBLY - Air Cleaner
51	TO-9619	-	1	-	-	-	-	SCREEN - Air Cleaner Cover
52	TO-9658	-	1	-	1	★	★	CUP - Oil Air Cleaner
53	TO-18215	-	1	-	1	★	★	TUBE - Air Cleaner to Carburetor
54	TO-9600-B2	1	-	-	-	-	-	AIR CLEANER ASSEMBLY - Optional with TO-9600-B1 Composed of Body not serviced and Items 55 and 56
55	TO-9628-A	1	-	-	-	-	-	CLAMP ASSEMBLY
56	TO-9658-A	1	-	-	-	-	-	CUP ASSEMBLY Composed of Cup not serviced and
	TO-9617	1	-	-	-	-	-	PRE-FILTER ASSEMBLY
	TO-9618	1	-	-	-	-	-	DISC - Air Cleaner
	★ TE and TE-A20 Service Items - Not Illustrated							
	TS-9155	-	-	1	1	1	1	FILTER ASSEMBLY - Fuel Composed of Item 7 and Items 1 thru 11, Page 57
	2274	-	-	-	1	1	1	VALVE AND GLAND ASSEMBLY - Fuel Filter
7	TS-9143	-	-	1	1	1	1	BODY - Fuel Filter
8	1206	-	-	-	1	1	1	GAUZE - Fuel Filter
9	TS-9160	-	-	-	1	1	1	GASKET - Fuel Filter
10	1207	-	-	-	1	1	1	BOWL - Sediment - Fuel Filter
11	2419	-	-	-	1	1	1	BAIL ASSEMBLY - Fuel Filter
	9594	-	-	-	-	1	1	FUEL LINE - Carburetor to Fuel Filter up to 200,001
	8752	-	-	-	-	-	1	FUEL LINE - Carburetor to Fuel Filter - Includes 2212 - 200,001 and Future
	2210	-	-	-	-	-	1	CONNECTOR - Carburetor to Fuel Pipe - 200,001 & Future
12	2212	-	-	-	-	-	2	NUT - Connector - 200,001 & Future
	2213	-	-	-	-	-	1	CONNECTOR - Filter to Fuel Pipe - 200,001 & Future
	1921	-	-	-	1	1	1	CLIP - Fuel Line
	1922	-	-	-	1	1	1	HALF CLIP - Fuel Line
	19-102-38	-	-	-	-	1	1	SCREW - Round Head - Half Clip to Clip
13	1799	-	-	-	-	1	1	GAGE ASSEMBLY - Oil Pressure
15	7152	-	-	-	-	1	1	TUBE ASSEMBLY - Oil Pressure Gage up to 200,001
	8781	-	-	-	-	-	1	TUBE ASSEMBLY - Oil Pressure Gage - 200,001 & Future
18	TS-9876	-	-	-	1	1	1	JOINT - Ball - Throttle Control Lever
	TS-9810	-	-	-	1	1	1	ROD ASSEMBLY - Throttle Control Link (w/Joint) up to 200,001
19								Composed of Items 18 and 20
	4497	-	-	-	-	-	1	ROD ASSEMBLY - Throttle Control Link - 200,001 & Future
	25-104	-	-	-	-	-	1	WASHER - Flat - 200,001 and Future
	06-05-50	-	-	-	-	-	2	PIN - Cotter - 200,001 and Future
20	TS-9811	-	-	-	1	1	1	JOINT - Ball - Throttle Control Lever

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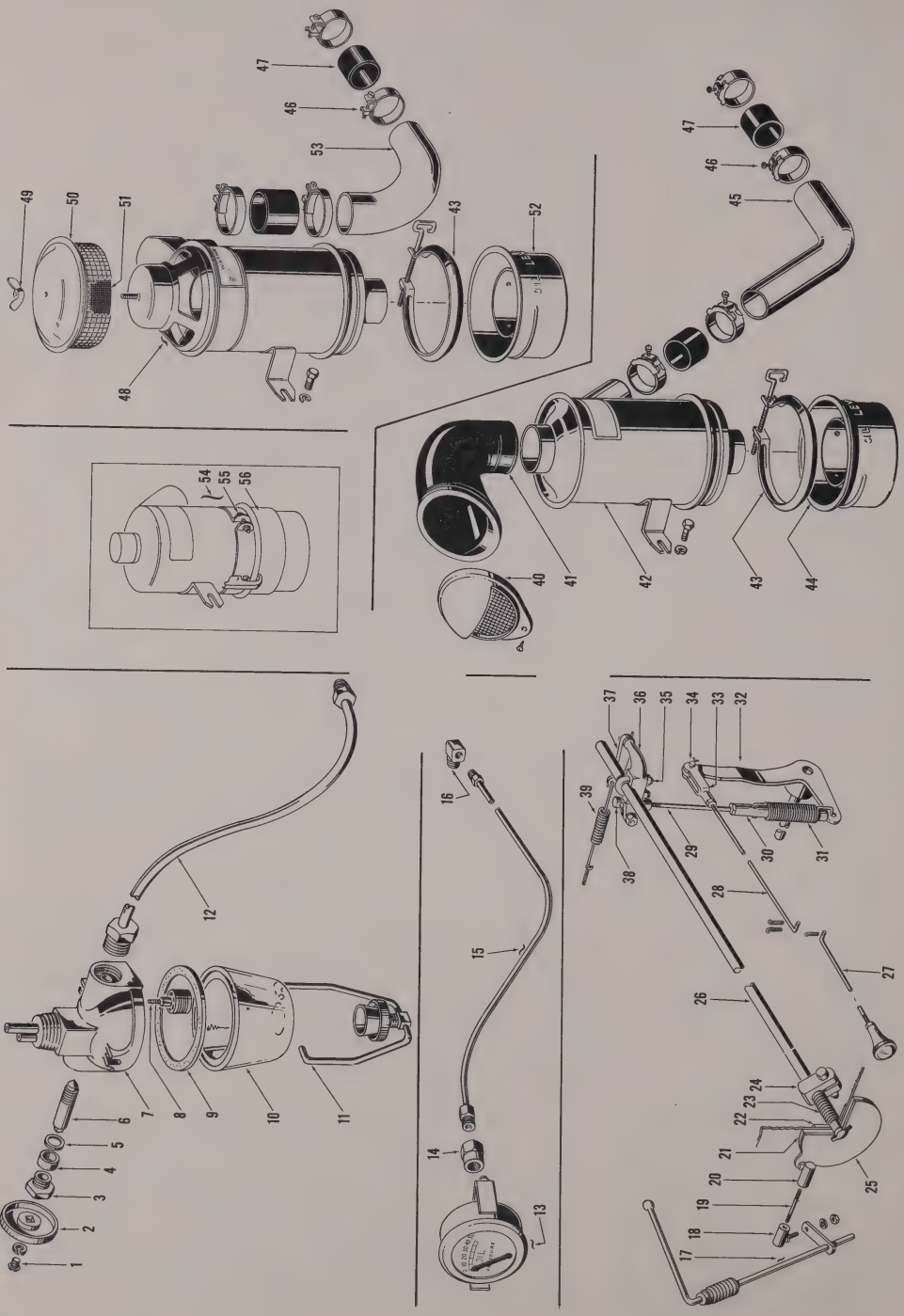
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FIG. 23

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	FIG. 23 AIR CLEANER, FUEL FILTER, OIL GAUGE AND CONTROL RODS — Cont'd.
								★TE- & TE-A20 Service Items - Not Illustrated - Continued
26	2112	-	-	-	-	1	1	ROD ASSEMBLY - Throttle Control up to 200,001
	2231	-	-	-	-	-	1	ROD ASSEMBLY - Throttle Control - 200,001 and Future
27	4435	-	-	-	-	1	1	ROD ASSEMBLY - Choke Control
28	58061	-	-	-	-	1	1	ROD - Control - Governor Lever to Carburetor - up to 200,001
	102810	-	-	-	-	-	1	ROD - Tie - Throttle Control - 200,001 and Future
29	1912	-	-	-	-	1	1	ROD - Arm Governor
30	2485	-	-	-	-	-	1	PLUNGER - Throttle Control - 200,001 and Future
31	1391	-	-	-	-	1	1	SPRING - Throttle Control Plunger - up to 200,001
	2517	-	-	-	-	-	1	SPRING - Throttle Control Plunger - 200,001 and Future
32	57008	-	-	-	-	1	1	LEVER ASSEMBLY - Governor - up to 200,001
	102806	-	-	-	-	-	1	LEVER ASSEMBLY - Governor - 200,001 and Future
33	58062	-	-	-	-	1	1	YOKE - Carburetor Control Rod
34	58077	-	-	-	-	1	1	PIN - Clevis - Control Rod Yoke
36	1610	-	-	-	-	1	1	ROCKER - Governor Linkage - up to 200,001
	4465	-	-	-	-	-	1	ROCKER - Governor Linkage - 200,001 and Future
39	2508	-	-	-	-	1	1	SPRING - Governor Linkage - up to 200,001
	2483	-	-	-	-	-	1	SPRING - Governor Linkage - 200,001 and Future
40	7331	-	-	-	-	-	1	COVER ASSEMBLY - Air Inlet - 200,001 and Future
	2622	-	-	-	-	-	1	SCREEN ASSEMBLY - Air Inlet - 200,001 and Future
	19-102-38	-	-	-	-	-	1	SCREW - Round Head - Cover to Dash - 200,001 and Future
41	7330	-	-	-	-	-	1	HOSE - Air Inlet - Rubber - 200,001 and Future
42	8742	-	-	-	-	-	1	AIR CLEANER ASSEMBLY - 200,001 and Future
43	4262	-	-	-	1	1	1	CLAMP ASSEMBLY - Oil Cup - For 7156
46	2070	-	-	-	-	3	3	CLIP - Hose - Air Cleaner Pipe - 2" O.D.
	2072	-	-	-	-	1	1	CLIP - Hose - Air Cleaner Pipe - 1.795" O.D.
47	1575	-	-	-	-	1	1	HOSE - Air Cleaner to Carburetor - 2" O.D. One End and 1.795" O.D. Other End
48	7168	-	-	-	-	1	1	AIR CLEANER ASSEMBLY - Burgess - up to 200,001 Composed of Items 43 and 49 thru 52
50	4260	-	-	-	1	1	1	COVER ASSEMBLY - Air Cleaner - Wing Nut Type
	4277	-	-	-	1	1	1	COVER ASSEMBLY - Air Cleaner - For 7168
52	4280	-	-	-	-	1	1	CUP - Oil - Air Cleaner - For 7168 w/Clamp
	4281	-	-	-	1	1	1	CUP - Oil - Air Cleaner - For 7156 or 8742
53	8588	-	-	-	-	1	1	PIPE - Air Cleaner to Carburetor - up to 200,001
	8717	-	-	-	-	-	1	PIPE - Air Cleaner to Carburetor - 200,001 and Future
	8610	-	-	-	-	1	1	PIPE ASSEMBLY - Suction - Air Cleaner to Block
	1880	-	-	-	-	1	1	HOSE - Molded - Suction - 3/4" O.D. - Air Cleaner to Block
	2073	-	-	-	-	2	2	CLIP - Suction Hose

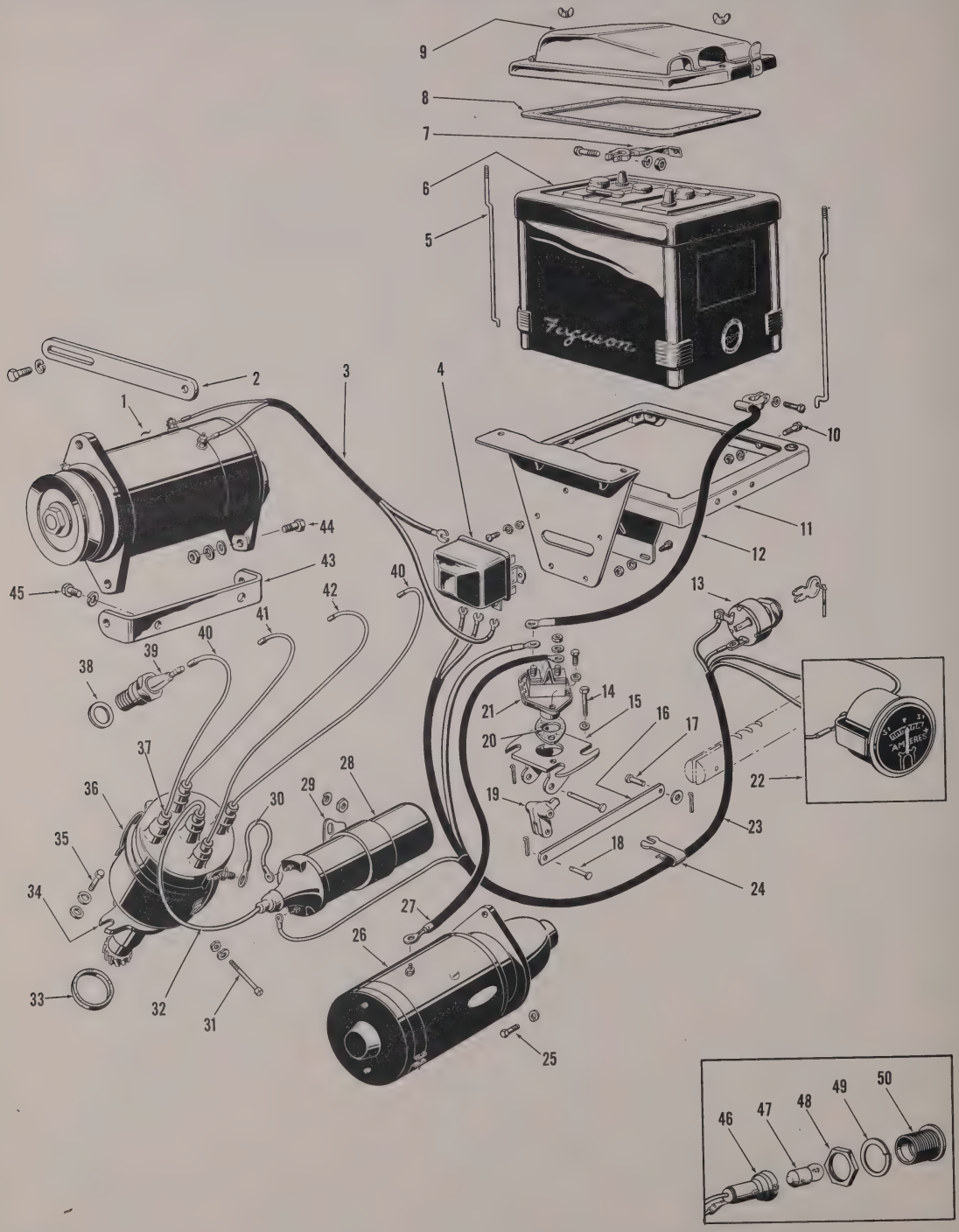

FIG. 24

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	FIG. 24 ELECTRICAL WIRING AND RELATED PARTS
			For TE-A, 12 Volt - See Fig. 46					
1	TO-10000-A1	-	1	-	★	★	★	GENERATOR ASSEMBLY } See Fig. 25 For Details
	TO-10000-C	1	-	-	-	-	-	GENERATOR ASSEMBLY }
2	TO-10161	1	-	-	-	-	-	ANCHOR - Generator Adjusting
	TO-10162	1	-	-	-	-	-	BOLT - Generator Adjusting Anchor to Generator
3	TO-14496	1	-	-	-	-	-	HARNESS ASSEMBLY - Generator Wire - For TE See Ref. 23
4	TO-10505-A	1	1	-	★	★	★	REGULATOR - Voltage
	25-112-50	2	2	-	★	★	★	SCREW - Rd. Hd. - Regulator to Battery Platform
	25-14	2	2	-	★	★	★	WASHER - Lock
	25-2103	2	2	-	★	★	★	NUT - Hex Mach.
5	TO-10728	2	2	-	2	2	2	BOLT - Battery Anchorage
	S-9753-A	2	2	-	2	2	2	NUT - Wing - Anchorage Bolt
6	TO-10655	1	1	-	1	1	1	BATTERY - With Electrolyte
	TO-10657	1	1	-	1	1	1	BATTERY - Dry For Export
7	TO-14301	1	1	-	1	1	1	STRAP ASSEMBLY - Battery to Ground
	TO-14303-A	1	1	-	1	1	1	BOLT - Square Head - Battery Terminal
	TO-14306	1	1	-	1	1	1	WASHER - Lock
	TO-14304	1	1	-	1	1	1	NUT - Hex
8	TO-10740	1	1	-	1	1	1	GASKET - Battery
9	TO-16938	1	1	-	1	★	★	COVER ASSEMBLY - Battery
								Composed of Cover and Frame Not Serviced and
	TO-10741	1	1	-	1	-	-	PIN - Battery Cover Hinge - Shown in Position
	TO-16948	1	1	-	1	-	-	CLIP - Battery Cover Hinge - Shown in Position
	12-06-25	1	1	-	1	-	-	RIVET - Button Head - Shown in Position
10	44-001-75	2	2	-	2	2	2	BOLT - Hex Head - Battery Platform to Instrument Panel
	44-14	2	2	-	2	2	2	WASHER - Lock
	44-003	2	2	-	2	-	-	NUT - Hex
11	TO-3809-B	1	1	-	★	★	★	PLATFORM ASSEMBLY - Battery
								Composed of Platform Not Serviced and
	S-10102	1	1	-	-	-	-	GROMMET - Battery Platform - Shown in Position
12	TO-14300	1	1	-	1	1	1	CABLE ASSEMBLY - Battery to Starter Switch
	TO-14303-A	1	1	-	1	1	1	BOLT - Square Head - Battery Terminal
	TO-14304	1	1	-	1	1	1	NUT - Hex
13	TO-3684	-	1	-	★	★	★	LOCK ASSEMBLY - Ignition
	TO-3684-A	1	-	-	-	-	-	LOCK ASSEMBLY - Ignition
								Composed of
	16-112-25	3	-	-	-	-	-	SCREW RD. HD. TERMINAL - Shown in Position
	TO-3683	-	2	-	-	-	-	SCREW RD. HD. TERMINAL - Shown in Position
	TO-3682	3	-	-	-	-	-	WASHER - Lock - Shakeproof - Shown in Position
	TO-3689	-	1	-	-	-	-	NUT - Lock - Shown in Position
	TO-3689-A	1	-	-	-	-	-	NUT - Lock - Shown in Position
	TO-3685	-	2	-	★	★	★	KEY - Ignition
	TO-3685-A	2	-	-	-	-	-	KEY - Ignition
14	31-101-75	4	4	-	★	★	★	SCREW - Cap - Plate and Bracket to Transmission
	31-14	4	4	-	★	★	★	WASHER - Lock - Plate and Bracket to Transmission

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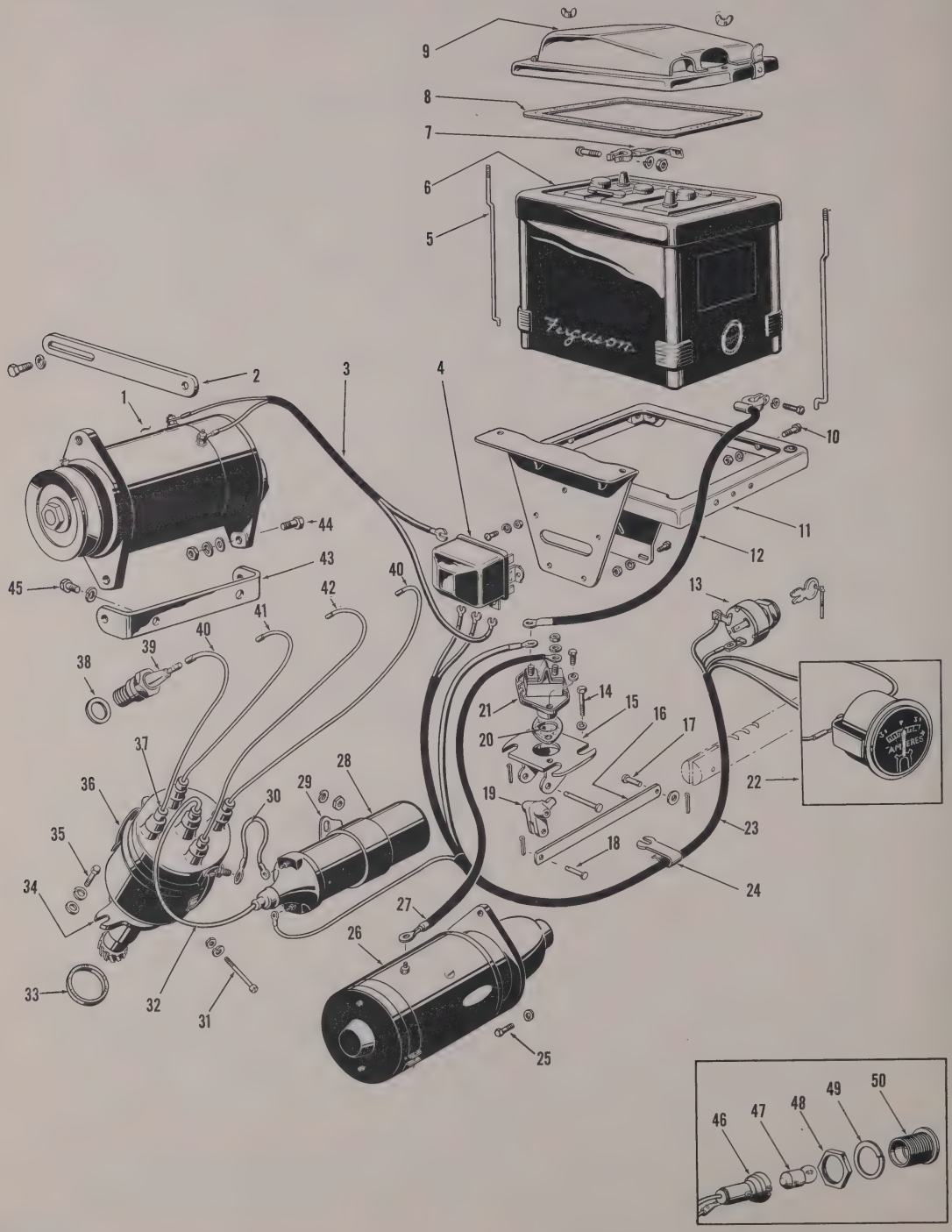
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FIG. 24

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	FIG. 24 ELECTRICAL WIRING AND RELATED PARTS—Cont'd.
		For TE-A, 12 Volt - See Fig. 46						
15	TO-11454	1	1	-	-	-	-	PLATE AND BRACKET ASSEMBLY - Starter Switch - For TE See Ref. 21
16	TO-11512-A	1	1	-	1	1	1	LINK - Starter Switch to Reverse Shifter Rail
17	S-10211-C	1	1	-	1	1	1	PIN - Clevis - Link to Reverse Shifter Rail
	31-104	1	1	-	1	1	1	WASHER - Flat - Link to Reverse Shifter Rail
	09-05-50	1	1	-	1	1	1	PIN - Cotter
18	S-10211-A	1	1	-	1	1	1	PIN - Clevis - Toggle Lever to Link
	09-05-50	1	1	-	1	1	1	PIN - Cotter
19	TO-11515-A	1	1	-	★	★	★	LEVER - Toggle - Starter Switch
	S-10211-E	1	1	-	1	1	1	PIN - Clevis - Toggle Lever to Plate and Bracket
	09-05-50	1	1	-	1	1	1	PIN - Cotter
20	TO-11462	1	1	-	1	1	1	GASKET - Starter Switch
21	TO-11450-A	1	1	-	★	★	★	SWITCH - Starter
	25-001-38	2	2	-	-	-	-	BOLT - Hex Head - Switch to Plate
	25-14	2	2	-	-	-	-	WASHER - Lock
	38-14	2	2	-	-	-	-	WASHER - Lock - Cable to Switch and Starter
	38-2103	2	2	-	-	-	-	NUT - Hex Mach
22	TO-10850	1	1	-	-	-	-	AMMETER - For TE See Ref. 46 thru 50
23	TO-14498	-	1	-	★	★	★	HARNESS ASSEMBLY - Wire Complete
	TO-14495	1	-	-	-	-	-	HARNESS ASSEMBLY - Ammeter and Ignition Switch
24	TO-14433	1	1	-	1	★	★	SUPPORT - Wire Harness
25	44-101-100	2	2	-	2	2	2	SCREW - Cap- Starter to Cylinder Crankcase
	44-14	2	2	-	2	2	2	WASHER - Lock
26	TO-11001	1	1	-	★	★	★	STARTER ASSEMBLY - See Fig. 26 For Details
27	TO-14431	1	1	-	★	★	★	CABLE ASSEMBLY - Starter Switch to Starter
28	TO-12024	1	1	-	1	1	1	COIL ASSEMBLY - Ignition Composed of Item 29 and
	1885531	2	2	-	2	-	-	SCREW - Bracket Attachment - Shown in Position
	120614	2	2	-	2	-	-	NUT - Terminal - Shown in Position
	1909206	2	2	-	2	-	-	CLIP - Terminal Nut - Shown in Position
29	1909180	1	1	-	★	-	-	BRACKET - Coil
	25-14	2	2	-	2	-	-	WASHER - Lock - Bracket to Engine Block
	25-2103	2	2	-	2	-	-	NUT - Hex Mach.
30	TO-12289	1	1	-	1	1	1	WIRE ASSEMBLY - Coil
31	S-31742	1	1	-	-	-	-	SCREW - Filister Head - Clamp to Distributor
	25-14	1	1	-	-	-	-	WASHER - Lock
	25-2103	1	1	-	-	-	-	NUT - Hex Mach.
32	TO-12285	1	1	-	1	1	1	WIRE ASSEMBLY - Distributor to Coil
	TO-12026	1	1	-	1	1	1	NIPPLE - Rubber - Ignition Coil
33	TO-12108	1	1	-	-	-	-	SEAL - Distributor Housing
34	TO-12102	1	1	-	★	★	★	CLAMP ASSEMBLY - Distributor Composed of Item 31
35	25-101-62	1	1	-	1	-	-	SCREW - Cap - Clamp to Engine Block - See Fig. 41
	25-104	1	1	-	1	-	-	WASHER - Flat
	25-14	1	1	-	1	-	-	WASHER - Lock
36	TO-12100	-	1	-	★	★	★	DISTRIBUTOR ASSEMBLY-Ignition-See Fig. 27 For Details
	TO-12100-A	1	-	-	-	-	-	DISTRIBUTOR ASSEMBLY-Ignition-See Fig. 27 For Details
37	TO-12113	5	5	-	5	5	5	NIPPLE - Rubber - Distributor Cap
38	TO-12410	4	4	-	4	-	-	GASKET - Spark Plug Seat
39	TO-12405	4	4	-	4	-	-	SPARK PLUG - 18 MM - Standard
	TO-12405-A	4	4	-	-	-	-	SPARK PLUG - 18 MM - Cold
	TO-12405-B	4	4	-	-	-	-	SPARK PLUG - 18 MM - Hot
	TS-12405-1	-	-	-	-	4	4	SPARK PLUG - 14 MM - Standard
40	TO-12283	2	2	-	2	-	-	WIRE ASSEMBLY- No. 1 and No. 4 Spark Plug
41	TO-12284	1	1	-	1	2	2	WIRE ASSEMBLY No. 2 Spark Plug - No. 2 on TE: 1 & 2 on TE-A
42	TO-12286	1	1	-	★	★	★	WIRE ASSEMBLY - No. 3 Spark Plug
43	TO-10160	1	-	-	-	-	-	BRACKET - Generator Mounting
44	31-001-112	2	-	-	-	-	-	BOLT - Hex Head - Generator to Mounting Bracket
	31-14	2	-	-	-	-	-	WASHER - Lock
	31-003	2	-	-	-	-	-	NUT - Hex

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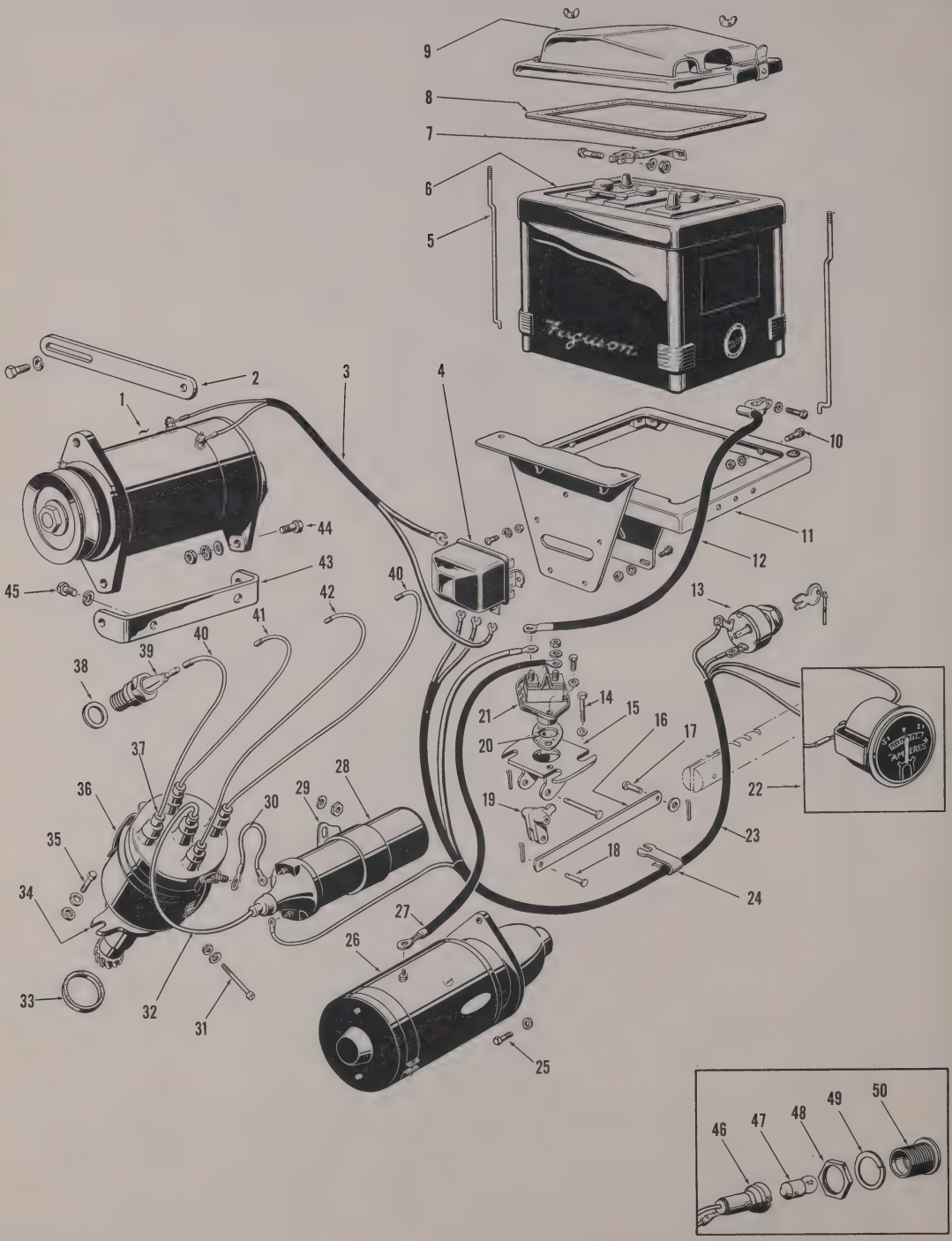
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FIG. 24

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	FIG. 24 ELECTRICAL WIRING AND RELATED PARTS—Cont'd.
		For TE-A, 12 Volt - See Fig. 46						
45	44-101-112	2	-	-	-	-	-	SCREW - Cap - Mounting Bracket to Cylinder Block
	44-14	2	-	-	-	-	-	WASHER - Lock
46	TO-3691	-	1	-	★	★	★	SOCKET ASSEMBLY - Discharge Indicator
47	TO-3692	-	1	-	★	★	★	BULB - Discharge Indicator
48	TO-3681	-	1	-	-	-	-	NUT - Lock - Indicator Socket
49	TO-3680	-	1	-	-	-	-	WASHER - Lock - Indicator Socket
50	TO-3690	-	1	-	★	★	★	LENS ASSEMBLY - Indicator Socket
	TO-10153	-	1	-	1	-	-	PLATE ASSEMBLY - Generator Adjusting -Not Illustrated
	44-001-362	-	1	-	1	-	-	BOLT - Hex Head -Generator, Plate to Engine Block - Not Illustrated
	44-14	-	1	-	1	-	-	WASHER - Lock
	44-003	-	1	-	1	-	-	NUT - Hex
	44-101-150	-	1	-	1	-	-	SCREW - Cap - Adjusting Plate to Generator - Not Illustrated
	44-204	-	1	-	1	-	-	WASHER - Flat
	44-14	-	1	-	1	-	-	WASHER - Lock
	★TE AND TE-A SERVICE ITEMS-NOT ILLUSTRATED							
	NOTE: The following Service Items are for 6 Volt Tractors up to Serial 200,001. For 12 Volt Tractors Serial 200,001 and Future which took effect in 1951, see Figure 46, pages 128, 129 and 130.							
1	22420	-	-	-	1	-	-	GENERATOR ASSEMBLY }
	22256	-	-	-	1	1	-	GENERATOR ASSEMBLY } See Fig 25 for Details
	22261	-	-	-	-	1	1	GENERATOR ASSEMBLY }
	22259	-	-	-	-	-	1	GENERATOR ASSEMBLY }
4	37053	-	-	-	1	1	1	REGULATOR - Voltage
	25-101-100	-	-	-	2	2	2	SCREW - Cap - Regulator to Battery Mounting
	25-14	-	-	-	2	2	2	WASHER - Lock
	25-2103	-	-	-	2	2	2	NUT - Hex
	188818	-	-	-	-	-	4	SLEEVE - Wire Attachment - Regulator
9	4392	-	-	-	-	1	1	COVER - Battery - Pressed Board
11	8565	-	-	-	1	1	1	PLATFORM ASSEMBLY - Battery
	4309	-	-	-	1	1	1	MAT - Battery
13	31083	-	-	-	1	1	1	LOCK - Ignition Switch
	312305	-	-	-	1	1	1	KEY - Ignition
14	31-101-88	-	-	-	4	4	4	SCREW - Cap - Starter Switch to Trans. Housing
	31-104	-	-	-	4	4	4	WASHER - Flat
19	1300	-	-	-	1	1	1	LEVER - Toggle - Starter Switch
21	TS-11461	-	-	-	1	1	1	SWITCH ASSEMBLY - Starter
23	972722	-	-	-	1	-	-	HARNESS ASSEMBLY - Wire Complete - Up to 16,000
	974361	-	-	-	1	1	1	HARNESS ASSEMBLY - Wire Complete - 16,000 to 200,001
24	1919	-	-	-	-	1	1	CLIP - Wiring Harness
	187081	-	-	-	-	1	1	CLIP - Cable Warning Light
26	25519	-	-	-	1	1	1	STARTER ASSEMBLY }
	25038	-	-	-	-	-	1	STARTER ASSEMBLY } See Figure 26 for Details
27	974372	-	-	-	1	1	1	CABLE ASSEMBLY - Starter Switch to Starter
	238576	-	-	-	3	3	3	BOOT - Rubber - Starter to Starter Switch Cable
29	1420	-	-	-	1	-	-	BRACKET - Ignition Coil
	408120	-	-	-	1	1	1	NUT - Moulded - Ignition Coil
34	415034	-	-	-	1	1	1	CLAMP ASSEMBLY - Distributor
36	40084	-	-	-	1	-	-	DISTRIBUTOR ASSEMBLY }
	40146	-	-	-	-	1	-	DISTRIBUTOR ASSEMBLY } See Figure 27 for Details
	40243	-	-	-	-	-	1	DISTRIBUTOR ASSEMBLY }
42	TS-12286	-	-	-	1	2	2	WIRE ASSEMBLY - Spark Plug No. 3 on TE; 3 & 4 on TE-A
46	TS-3693	-	-	-	1	1	1	KIT - Discharge Indicator Composed of Items 46 thru 50 page 65
47	970	-	-	-	1	1	1	BULB - Discharge Indicator - 6 Volt
50	318805	-	-	-	1	1	1	LENS ASSEMBLY - Indicator Socket

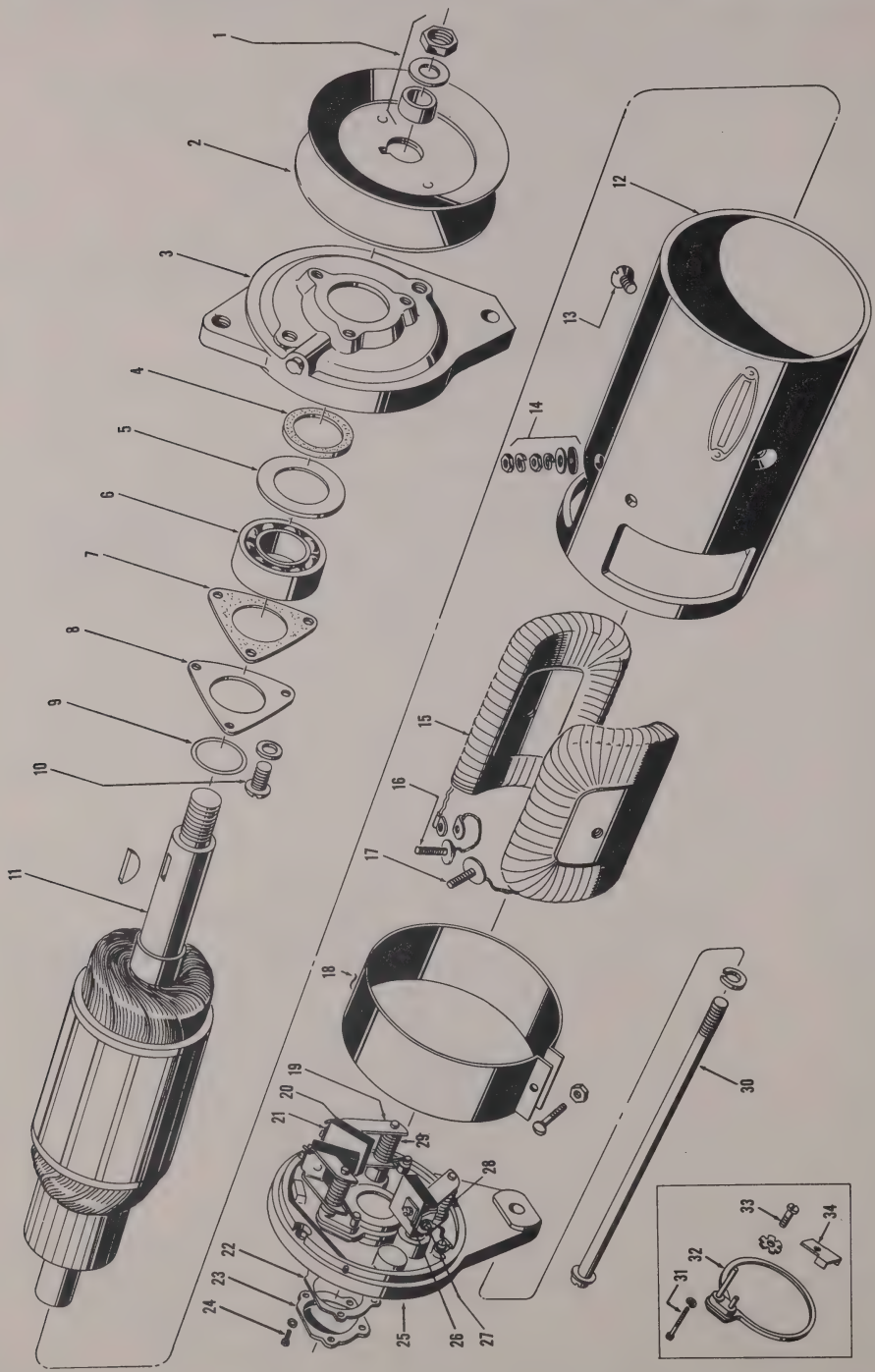
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FIG. 25

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 25 GENERATOR ASSEMBLY
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
	TO-10000-A1	-	1	-	★	★	★	GENERATOR ASSEMBLY
	TO-10000-C	1	-	-	-	-	-	GENERATOR ASSEMBLY
								Composed of Items 1 thru 34
1	806915	1	1	-	★	★	★	NUT - Armature Shaft Drive End
	804000	1	1	-	★	★	★	WASHER - Lock - Armature Shaft - Drive End
	817224	1	1	-	-	-	-	COLLAR - Spacer - Drive End
2	1912440	1	1	-	★	★	★	PULLEY - Generator
3	1912438	-	1	-	★	★	★	FRAME - Generator Drive End
	1855960	1	-	-	-	-	-	FRAME - Generator Drive End
	809593	1	1	-	#	#	#	PIN - Dowel - Generator Drive End
	1880635	1	1	-	-	-	-	OILER - Drive End Frame
4	809961	1	1	-	★	★	★	WASHER - Felt - Drive End
5	819104	1	1	-	-	-	-	RETAINER - Felt Washer
6	954378	1	1	-	1	★	★	BEARING - Ball - Drive End
7	1912008	1	1	-	-	-	-	GASKET - Ball Bearing Retainer Plate
8	1911263	1	1	-	★	★	★	PLATE - Retainer - Ball Bearing
9	809945	1	1	-	-	-	-	WASHER - Spacer - Drive End
10	1904370	3	3	-	#	#	#	SCREW - Bearing Retainer Plate
	1880781	3	3	-	-	-	-	WASHER - Drive End Bearing Retainer
11	1917164	1	1	-	★	★	★	ARMATURE - Generator
	124545	1	1	-	#	#	#	KEY - Woodruff - Shaft to Pulley
12		-	-	-	-	-	-	HOUSING - Not Serviced
13	1843646	2	2	-	#	#	#	SCREW - Generator Pole Shoe
14	1904661	4	4	-	#	#	#	WASHER - Terminal Lock
	121743	4	4	-	#	#	#	NUT - Terminal
	1881409	3	3	-	#	#	#	WASHER - Terminal - Plain
	1858753	2	2	-	#	#	#	WASHER - Terminal Insulating
	1885090	2	2	-	#	#	#	BUSHING - Terminal Stud - Not Illustrated
15	1913554	1	1	-	★	★	★	FIELD COIL ASSEMBLY - Generator
	1914491	2	2	-	-	-	-	INSULATOR - Field Coil
	1914618	2	2	-	-	-	-	SHOE - Generator Pole - Shown in Position
16	1858754	1	1	-	#	#	#	TERMINAL AND LEAD ASSEMBLY - Armature
	200182	2	2	-	★	★	★	CLIP - Terminal
17	1858751	1	1	-	#	#	#	TERMINAL - Field Stud and Bushing
18	1872638	1	1	-	★	★	★	BAND ASSEMBLY - Generator Cover
								Composed of Band not serviced and
	132930	1	1	-	#	#	#	SCREW - Round Head - Cover Band
	120614	1	1	-	#	#	#	NUT - Hex
19	809642	3	3	-	-	-	-	HOLDER - Generator Brush
20	1880998	1	1	-	★	★	★	BRUSH KIT - Generator
21	809551	3	3	-	-	-	-	WASHER - Plain - Brush Attaching Screw
22	817220	1	1	-	-	-	-	GASKET - Commutator End Cover Plate
23	820524	1	1	-	★	★	★	PLATE - Commutator End Cover
24	1886496	3	3	-	-	-	-	SCREW - Commutator End Cover Plate
	121841	3	3	-	-	-	-	WASHER - Lock - Cover Plate Screw

Sundry Sets contain those TE or TE-A Parts shown with Symbol #

Continued on Page 71

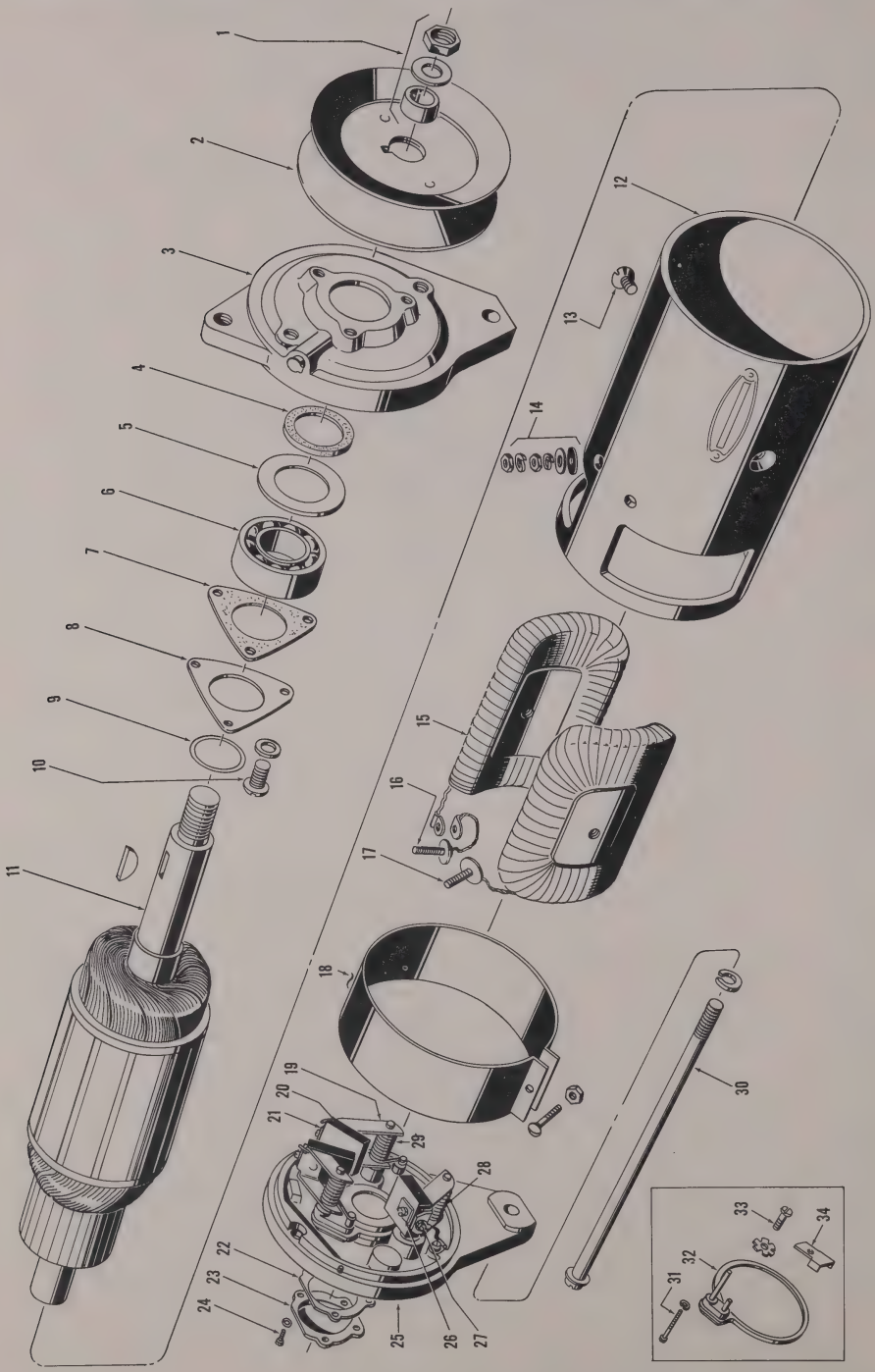
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FIG. 25

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	FIG. 25 GENERATOR ASSEMBLY—Cont'd.
25	817529	-	1	-	★	★	★	FRAME ASSEMBLY - Generator Commutator End
	817216	1	-	-	-	-	-	FRAME ASSEMBLY - Generator Commutator End Composed of Frame not serviced and
	817313	1	1	-	#	#	#	PIN - Brush Holder Hinge - Main
	817314	1	1	-	-	-	-	PIN - Brush Holder Stop - Main
	812016	1	1	-	-	-	-	PIN - Brush Holder Hinge and Insulating
	812015	1	1	-	-	-	-	PIN - Brush Holder Stop and Insulating
	812823	1	1	-	★	★	★	BUSHING - Commutator End Frame
	809062	1	1	-	#	#	#	PIN - Commutator End Frame Dowel
	1880635	2	2	-	★	★	★	OILER - Commutator and Drive End Frame
	804076	1	1	-	★	★	★	WICK - Commutator End Frame Oiler
	1911097	1	1	-	-	-	-	PLUG - Oil Hole - Commutator End Frame
26	141540	3	3	-	-	-	-	SCREW - Generator Brush Lead
	131044	3	3	-	-	-	-	WASHER - Brush Attaching - Lock
27	451608	3	3	-	#	#	#	SCREW - Generator Brush Holder
	1904377	3	3	-	#	#	#	WASHER - Lock - Brush Lead
	809688	1	1	-	-	-	-	LEAD - Ground - Generator Brush
28	809644	2	2	-	-	-	-	SPRING - Generator Brush - 3rd and Ground
29	809658	1	1	-	★	★	★	SPRING - Generator Brush - Main
30	815018	2	2	-	★	★	★	BOLT - Generator Thru
	120638	2	2	-	-	-	-	WASHER - Lock - Generator Thru Bolt
31	141543	1	1	-	-	-	-	SCREW - 3rd Brush Plate Clamp
	120217	1	1	-	-	-	-	WASHER - Spring - 3rd Brush Plate Screw
32	809698	1	1	-	-	-	-	PLATE - 3rd Brush Hinge Pin Insulating
33	809614	1	1	-	-	-	-	PIN - 3rd Brush - Plate Washer
	809824	1	1	-	-	-	-	SPRING - Third Brush Plate Tension
34	817532	1	1	-	-	-	-	CLAMP - 3rd Brush Plate
	1912439	-	1	-	-	-	-	BRACKET - Generator Mounting
	1913179	-	2	-	-	-	-	BOLT - Mounting Bracket
	131200	-	2	-	-	-	-	WASHER - Lock - Mounting Bracket Bolt

★ TE- & TE-A20 Service Items - Not Illustrated

	22420	-	-	-	1	1	-	GENERATOR ASSEMBLY - Up to 132,206
	22256	-	-	-	-	1	-	GENERATOR ASSEMBLY } 132,206 to 200,001 } Alternates
	22261	-	-	-	-	-	1	GENERATOR ASSEMBLY }
	22259	-	-	-	-	-	1	GENERATOR ASSEMBLY - 200,001 & Future
1	180620	-	-	-	1	1	-	NUT - Armature Shaft Drive End - Up to 132,206
	180740	-	-	-	-	1	1	NUT - Armature Shaft Drive End - 132,206 & Future
	185187	-	-	-	1	-	-	WASHER - Lock - Armature Shaft Drive End
	60561	-	-	-	-	1	-	WASHER - Lock - Armature Shaft Drive End - Up to 132,206
	101483	-	-	-	-	1	1	WASHER - Lock - Armature Shaft Drive End - 132,206 & Future
2	228469	-	-	-	1	-	-	PULLEY - Generator
	56837	-	-	-	-	1	-	PULLEY - Generator - Up to 132,206
	100407	-	-	-	-	1	1	PULLEY - Generator -132,206 & Future

Sundry Sets contain those TE or TE-A Parts shown with Symbol #

Continued on Page 73

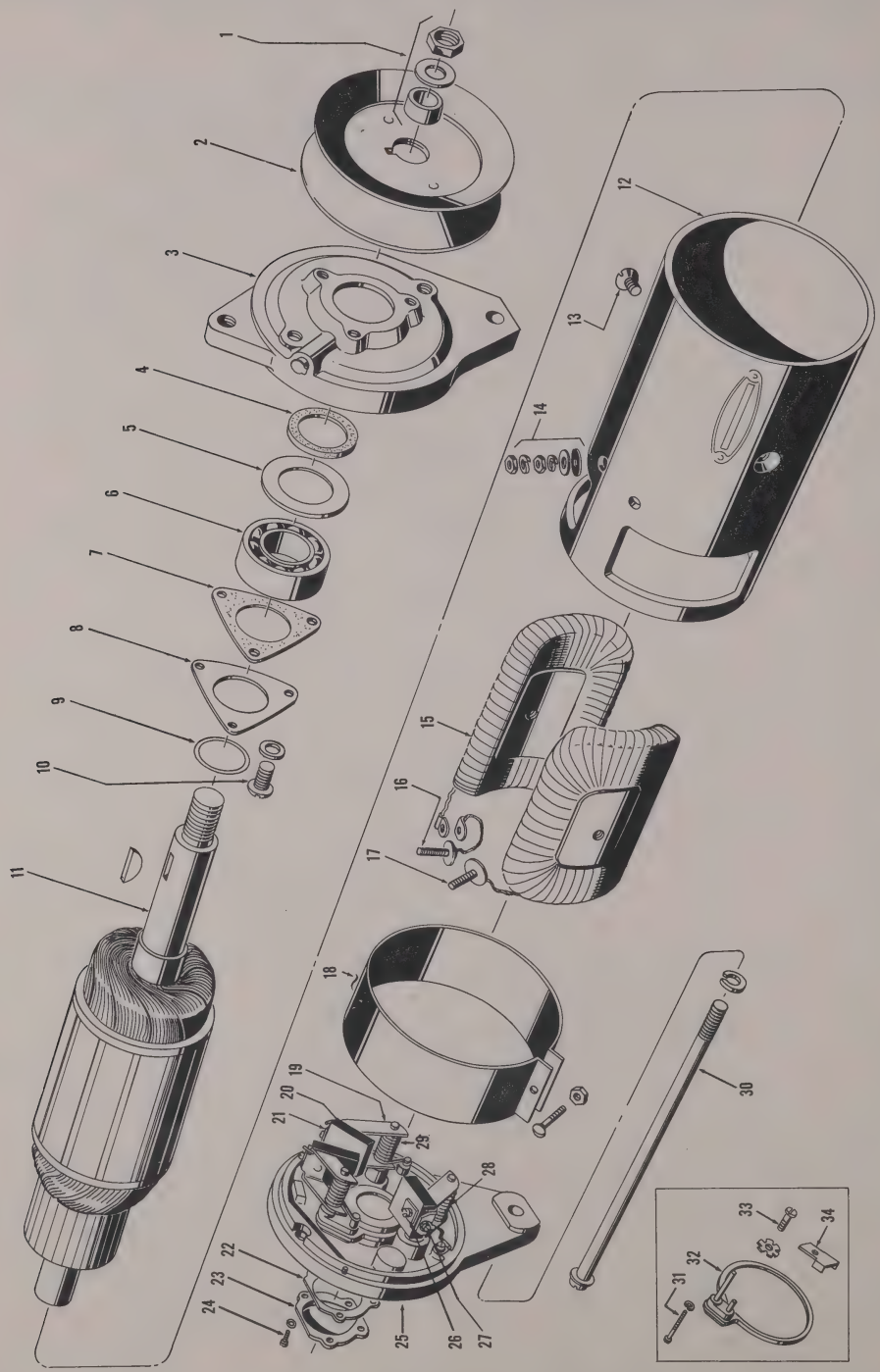
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FIG. 25

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	FIG. 25 GENERATOR ASSEMBLY —Cont'd.
		★TE & TE-A20 Service Items - Not Illustrated - Continued						
3	228482	-	-	-	1	-	-	FRAME - Generator Drive End
	227633	-	-	-	-	1	1	FRAME - Generator Drive End - Up to 200,001
	227732	-	-	-	-	-	1	FRAME - Generator Drive End - 200,001 & Future
4	238563	-	-	-	1	1	1	WASHER - Felt
6	189237	-	-	-	-	1	1	BEARING DRIVE END
8	238564	-	-	-	1	1	1	WASHER - Dished - Bearing Retainer
11	228067	-	-	-	1	-	-	ARMATURE - Generator
	227294	-	-	-	-	1	-	ARMATURE - Generator - Up to 172,587
	227727	-	-	-	-	-	1	ARMATURE - Generator - 172,587 to 200,001
	227693	-	-	-	-	-	1	ARMATURE - Generator - 200,001 & Future
15	228494	-	-	-	1	-	1	FIELD COIL ASSEMBLY - Generator
	227292	-	-	-	-	1	1	FIELD COIL ASSEMBLY - Generator - Up to 200,001
	227291	-	-	-	-	-	1	FIELD COIL ASSEMBLY - Generator - 200,001 & Future
16	238742	-	-	-	1	1	1	PLUG - Generator Field - See Fig. 46
	238743	-	-	-	1	1	1	PLUG - Generator - Positive - See Fig. 46
18	227627	-	-	-	1	1	1	BAND - Cover
20	203148	-	-	-	1	-	-	BRUSH KIT - Generator
	227305	-	-	-	-	1	1	BRUSH KIT - Generator
23	238566	-	-	-	1	1	1	CAP - Commutator End Cover
25	228483	-	-	-	1	-	-	FRAME - Commutator End
	227613	-	-	-	-	1	1	FRAME - Commutator End - Up to 200,001
	227733	-	-	-	-	-	1	FRAME - Commutator End - 200,001 & Future
	238567	-	-	-	1	-	-	BUSHING - Commutator End
	220258	-	-	-	-	1	1	BUSHING - Commutator End - Up to 200,001
	227713	-	-	-	-	-	1	BUSHING - Commutator End - 200,001 & Future
	238367	-	-	-	1	1	1	OILER - Commutator End
29	228159	-	-	-	2	2	2	SPRING - Generator Brush
30	228066	-	-	-	1	1	1	BOLT - Generator Thru
#	249694	-	-	-	1	-	-	BOX OF SUNDRIES - Generator
	227349	-	-	-	-	1	1	BOX OF SUNDRIES - Generator - Up to 200,001
	227726	-	-	-	-	-	1	BOX OF SUNDRIES - Generator - 200,001 & Future

Sundry Sets contain those TE or TE-A Parts shown with Symbol #

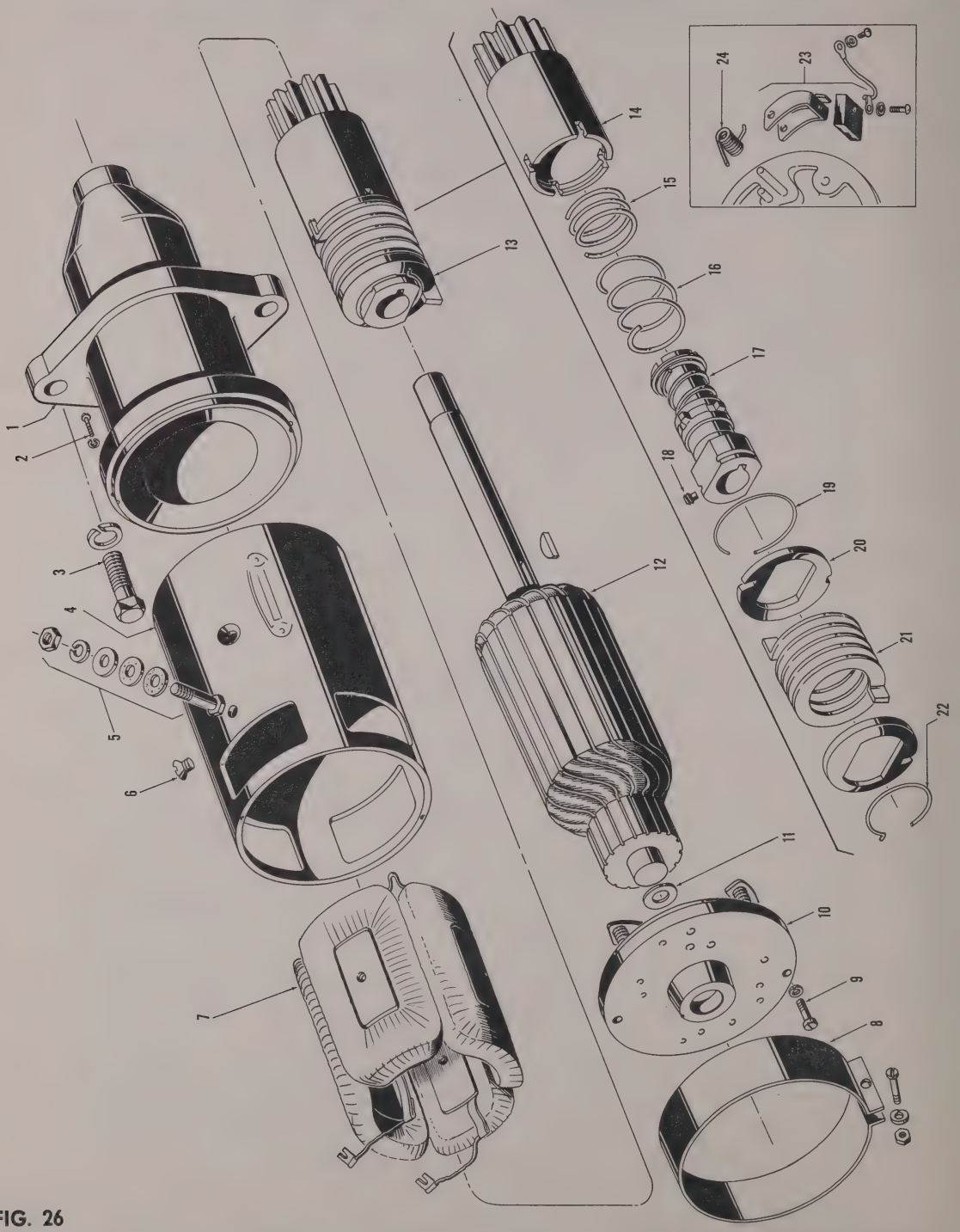

FIG. 26

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 26 STARTER ASSEMBLY
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
	TO-11001	1	1	-	★	★	★	STARTER ASSEMBLY
								Composed of Items 1 thru 24
1	1912435	1	1	-	★	★	★	FRAME ASSEMBLY - Starter Drive End
								Composed of Frame Not serviced and
	810620	1	1	-	★	★	★	BUSHING - Starter Drive End
2	132911	4	4	-	-	-	-	SCREW - Rd. Hd. - Starter Drive End Frame
	131183	4	4	-	-	-	-	WASHER - Lock
3	44-101-100	2	2	-	2	2	2	SCREW - Cap - Starter to Cylinder Crankcase
	44-14	2	2	-	2	2	2	WASHER - Lock
4		-	-	-	-	-	-	HOUSING - Not Serviced
5	1881865	1	1	-	-	-	-	STUD - Starter Terminal
	1881867	2	2	-	#	#	#	WASHER - Terminal Insulating - 11/16 O.D.
	1881866	2	2	-	#	#	#	WASHER - Terminal Insulating - 1/2 O.D.
	120214	2	2	-	#	#	#	WASHER - Lock
	134556	2	2	-	#	#	#	NUT - Terminal Stud
	1903092	2	2	-	-	-	-	WASHER - Plain
6	1881869	4	4	-	#	#	#	SCREW - Starter Pole Shoe
7	1882908	1	1	-	★	★	★	FIELD COIL - Starter - L.H.
	1882909	1	1	-	★	★	★	FIELD COIL - Starter - R.H.
	1881870	4	4	-	-	-	-	SHOE - Starter Pole
8	1887889	1	1	-	★	★	★	BAND ASSEMBLY - Starter Cover
								Composed of Band not Serviced and
	132926	1	1	-	1	1	1	SCREW - Rd. Hd. - Cover Band
	120614	1	1	-	1	1	1	NUT - Hex
9	115380	2	2	-	★	★	★	SCREW - Rd. Hd. - Commutator End Frame
	131183	2	2	-	★	★	★	WASHER - Lock
10	1881833	1	1	-	★	★	★	FRAME ASSEMBLY - Starter Commutator End
								Composed of Frame not serviced and
	817313	2	2	-	-	-	-	PIN - Brush Holder Hinge
	1881841	2	2	-	-	-	-	PIN - Brush Holder Stop
	812016	2	2	-	-	-	-	PIN - Brush Holder Hinge and Insulating
	812015	2	2	-	-	-	-	PIN - Brush Holder Stop and Insulating
	1839345	1	1	-	★	★	★	BUSHING - Starter Commutator End Frame
	1865182	1	1	-	★	★	★	PLUG - Starter Commutator End Frame
11	1838568	1	1	-	★	★	★	WASHER - Spacer - Starter C.E.
	1853917	1	1	-	★	★	★	WASHER - Spacer - Starter D.E.
12	1881818	1	1	-	★	★	★	ARMATURE - Starter
	124546	1	1	-	-	-	-	KEY - Woodruff - Drive Shaft
13	1878079	1	1	-	★	★	★	DRIVE ASSEMBLY - Starter
								Composed of Items 14 thru 22
14	1859053	1	1	-	★	★	★	PINION AND BARREL ASSEMBLY - Starter
15	1848528	1	1	-	-	-	-	SPRING - Starter Meshing
16	1859035	1	1	-	★	★	★	SPRING - Starter Anti-Drift
17	1878420	1	1	-	★	★	★	SHAFT ASSEMBLY - Starter Drive
18	1878419	1	1	-	-	-	-	PIN - Starter Pilot
19	1859033	1	1	-	★	★	★	RING - Snap - Pinion and Barrel
20	1916461	2	2	-	★	★	1	PLATE - Starter Drive Spring
21	1878421	1	1	-	★	★	★	SPRING - Starter Main Drive
22	1878418	1	1	-	★	★	★	RING - Lock Starter
23	810226	4	4	-	-	-	-	HOLDER - Starter Brush
	115903	4	4	-	-	-	-	SCREW - Starter Brush Lead
	131044	4	4	-	#	#	#	WASHER - Lock
	1881839	2	2	-	-	-	-	LEAD - Ground - Starter Brush
	122159	2	2	-	-	-	-	SCREW - Starter Brush Lead
	121841	2	2	-	#	#	#	WASHER - Lock

Continued on Page 77

Sundry Sets contain those TE or TE-A Parts shown with symbol #

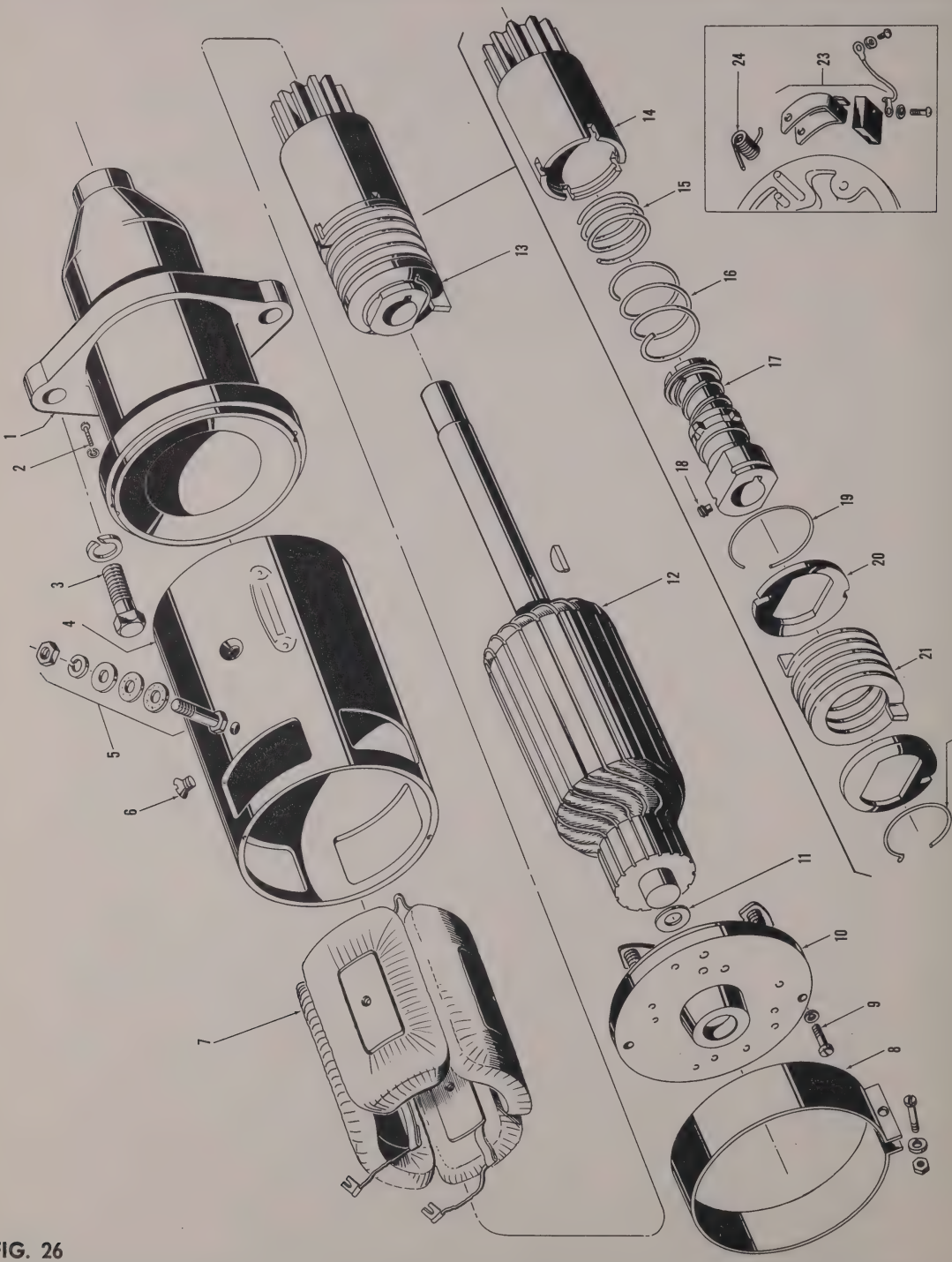

FIG. 26

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	FIG. 26 STARTER ASSEMBLY —Cont'd.
24	1881835	4	4	-	★	★	★	SPRING - Starter Brush
	1881838	1	1	-	★	★	★	BRUSH KIT - Starter
		★TE- & TE-A20 Service Items - Not Illustrated -						
	25519	-	-	-	1	1	1	STARTER ASSEMBLY - Up to 200,001
	25038	-	-	-	-	-	1	STARTER ASSEMBLY - 200,001 & Future
1	256255	-	-	-	1	1	1	FRAME ASSEMBLY - Starter D.E. Up to 200,001
	250412	-	-	-	-	-	1	FRAME ASSEMBLY - Starter D.E. 200,001 & Future
								Composed of
	256112	-	-	-	1	1	1	BUSHING - Starter Drive End - Up to 200,001
	250678	-	-	-	-	-	1	BUSHING - Starter Drive End - 200,001 & Future
	256259	-	-	-	1	-	-	FIELD COIL ASSEMBLY - Starter - Up to 18,000
7	255858	-	-	-	1	1	1	FIELD COIL ASSEMBLY - Starter - 18,000 to 200,001
	251089	-	-	-	-	-	1	FIELD COIL ASSEMBLY - Starter - 200,001 & Future
8	255557	-	-	-	1	1	1	BAND ASSEMBLY - Starter Cover - Up to 200,001
	250322	-	-	-	-	-	1	BAND ASSEMBLY - Starter Cover - 200,001 & Future
9	255459	-	-	-	2	2	2	BOLT - Starter Thru
	256748	-	-	-	1	1	1	FRAME ASSEMBLY - C.E. Up to 200,001
	251104	-	-	-	-	-	1	FRAME ASSEMBLY - C.E. - 200,001 & Future
10	255491	-	-	-	1	1	1	BUSHING - Starter - C.E. Frame Up to 200,001
	250626	-	-	-	-	-	1	BUSHING - Starter - C.E. Frame - 200,001 & Future
	256331	-	-	-	1	1	1	COVER - Starter Shaft - C.E. Up to 200,001
	250599	-	-	-	-	-	1	COVER - Starter Shaft - C.E. - 200,001 & Future
	149110	-	-	-	1	1	1	WASHER - Spacer Starter - C.E.
11	256710	-	-	-	1	1	1	WASHER - Spacer Starter - C.E. Up to 200,001
	134950	-	-	-	1	1	1	WASHER - Thrust - D.E. Up to 200,001
12	256548	-	-	-	1	1	1	ARMATURE - Starter - Up to 200,001
	251356	-	-	-	-	-	1	ARMATURE - Starter - 200,001 & Future
13	291352	-	-	-	1	1	1	DRIVE ASSEMBLY - Starter - Up to 200,001
	291380	-	-	-	-	-	1	DRIVE ASSEMBLY - Starter - 200,001 & Future
								Composed of
	291342	-	-	-	1	-	-	PINION AND BARREL ASSEMBLY - Up to 43552
14	291347	-	-	-	1	1	1	PINION AND BARREL ASSEMBLY - Up to 200,001
	291101	-	-	-	-	-	1	PINION AND BARREL ASSEMBLY - 200,001 & Future
16	256027	-	-	-	1	1	1	SPRING - Starter - Anti - Drift - Up to 200,001
	291035	-	-	-	-	-	1	SPRING - Starter - Anti - Drift - 200,001 & Future
	256299	-	-	-	1	-	-	SLEEVE ASSEMBLY - Starter Drive - Prior to 43,552
	291351	-	-	-	1	1	1	SLEEVE ASSEMBLY - Starter Drive - 43,552 to 200,001
17		-	-	-	-	-	-	SLEEVE ASSEMBLY - Starter Drive - 200,001 & Future Not serviced, order 291,380. This sleeve assy. composed of Items 15, 20 and Fibre washer not shown. These details not serviced, order 291,380.
19	255815	-	-	-	1	1	1	RING - Snap - Pinion and Barrel
20	255814	-	-	-	1	1	1	COUPLING - Starter Washer - 43,552 to 200,001
	1916461	-	-	-	-	-	1	PLATE - Starter Drive Spring - Outside - 200,001 & Future (Inside Plate not serviced Separately)
	270326	-	-	-	1	-	-	SPRING - Starter Main Drive - Up to 43,552
21	291350	-	-	-	1	1	1	SLEEVE - Starter Plate - 43,552 to 200,001
	291362	-	-	-	1	1	1	PLATE - Starter Trans. 43,552 to 200,001
	291043	-	-	-	-	-	1	SPRING - Starter Main Drive - 200,001 & Future
22	255820	-	-	-	1	1	1	CIRCLIP - Starter Drive End
	185187	-	-	-	1	-	-	WASHER - Friction - Main Drive Spring - Up to 43,552
	255816	-	-	-	1	1	1	WASHER - Friction - Starter - 43,552 to 200,001
	158250	-	-	-	1	1	1	WASHER - Packing - Starter - 43,552 to 200,001
24	270004	-	-	-	4	4	4	SPRING - Starter Brush - Up to 200,001
	251109	-	-	-	-	-	4	SPRING - Starter Brush - 200,001 & Future
	256482	-	-	-	1	1	1	NUT - Starter Shaft - For Keyed Shaft } up to 200,001
	255806	-	-	-	1	1	1	NUT - Starter Shaft - For Pegged Shaft } up to 200,001
	256320	-	-	-	1	1	1	PEG - Starter Shaft - Nut - For 255806 } up to 200,001
	291042	-	-	-	-	-	1	NUT - Starter Shaft - 200,001 & Future
#	249695	-	-	-	1	1	1	BOX OF SUNDRIES - Starter - Up to 200,001
	256762	-	-	-	-	-	1	BOX OF SUNDRIES - Starter - 200,001 & Future
	255659	-	-	-	1	1	1	BRUSH KIT - Starter - Up to 200,001
	251108	-	-	-	-	-	1	BRUSH KIT - Starter - 200,001 & Future

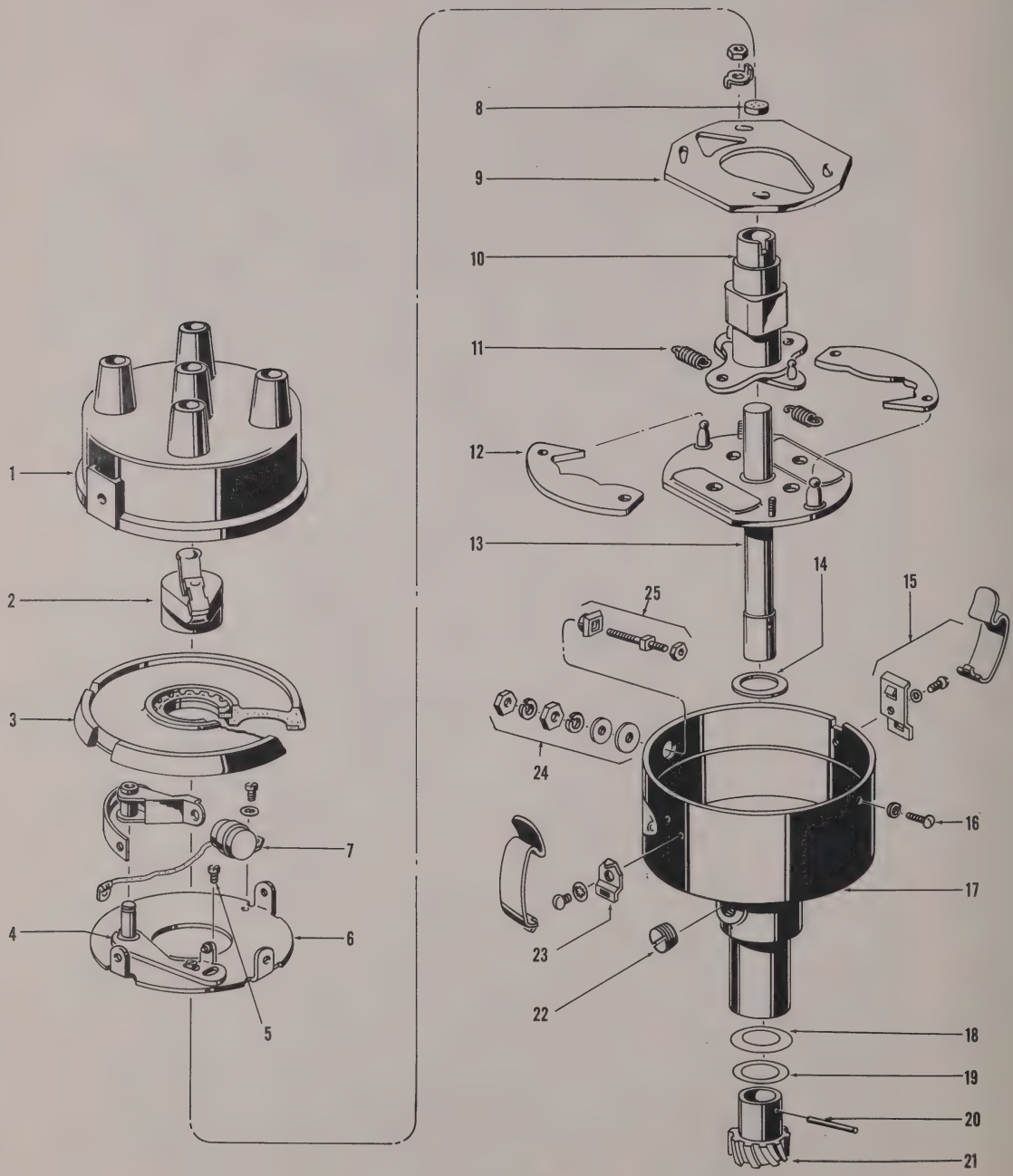

FIG. 27

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 27 DISTRIBUTOR ASSEMBLY
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
	TO-12100	-	1	-	★	★	★	DISTRIBUTOR ASSEMBLY
	TO-12100-A	1	-	-	-	-	-	DISTRIBUTOR ASSEMBLY Composed of Items 1 thru 25
1	811735	1	1	-	★	★	★	CAP ASSEMBLY - Distributor Composed of Cap not serviced and
	821604	1	1	-	★	★	★	BUTTON - Carbon - Distributor Cap
2	1905590	1	1	-	★	★	★	ROTOR - Distributor
3	1900119	1	1	-	★	★	★	COVER ASSEMBLY - Distributor Dust Composed of Cover not serviced and
	1889966	1	1	-	-	-	-	GASKET - Dust Cover
	1914309	1	1	-	-	-	-	SEAL - Felt - Dust Cover
4	1911119	1	1	-	★	★	★	CONTACT SET - Breaker Point
5	816784	1	1	-	#	#	#	SCREW - Adjusting Breaker Point
6	1847643	1	1	-	-	-	-	PLATE - Distributor Breaker
7	1869704	1	1	-	★	★	★	CONDENSER - Distributor
	131949	1	1	-	#	#	#	SCREW - Rd. Hd. - Condenser to Plate
	121841	1	1	-	#	#	#	WASHER - Lock
8	816803	-	1	-	-	-	-	WICK - Felt - Cam
	819639	1	-	-	-	-	-	WICK - Felt - Cam
9	1885557	1	1	-	-	-	-	PLATE - Distributor Weight Retainer
	1885558	2	2	-	-	-	-	WASHER - Lock - Plate Nut
	120614	2	2	-	-	-	-	NUT - Distributor Retainer Plate
10	1911257	-	1	-	★	★	★	CAM - Distributor Breaker
	1919674	1	-	-	-	-	-	CAM - Distributor Breaker
11	1887130	-	2	-	★	★	★	SPRING - Distributor Advance Weight
	1886508	2	-	-	-	-	-	SPRING - Distributor Advance Weight
12	1881371	-	4	-	★	★	★	WEIGHT - Distributor Advance
	1880902	4	-	-	-	-	-	WEIGHT - Distributor Advance
13	1912474	-	1	-	★	★	★	MAINSHAFT AND WEIGHT PLATE ASSEMBLY
	1920306	1	-	-	-	-	-	MAINSHAFT AND WEIGHT PLATE ASSEMBLY
14	811912	1	1	-	-	-	-	WASHER - Spacer Plate to Housing
15	1889967	2	2	-	★	★	★	SPRING - Distributor Cap
	1889999	1	1	-	-	-	-	SUPPORT - Distributor Cap Spring and Locator
	121832	2	2	-	#	#	#	SCREW - Rd. Hd. - Spring and Support to Housing
	121841	2	2	-	-	-	-	WASHER - Lock
16	121749	1	1	-	#	#	#	SCREW - Rd. Hd. - Housing to Breaker Plate
	121841	1	1	-	#	#	#	WASHER - Lock
17		-	-	-	-	-	-	HOUSING - Not Serviced
	1909003	1	-	-	★	★	★	BUSHING - Housing - Shown in Position
18	811912	1	1	-	★	★	★	WASHER - Spacer - Pinion Gear
19	810074	As Req.	As Req.	-	-	-	-	SHIM - .005 Thick - Pinion Gear
	810078	As Req.	As Req.	-	-	-	-	SHIM - .010 Thick
20	1900428	1	1	-	★	★	★	PIN - Pinion Gear
21	1912476	1	1	-	★	★	★	GEAR - Pinion - Distributor
22	125947	1	1	-	-	-	-	PLUG - Pipe - Distributor Housing
23	1847289	1	1	-	-	-	-	SUPPORT - Distributor Cap Spring

Sundry Sets contain those TE or TE-A Parts shown with Symbol #

Continued on Page 81

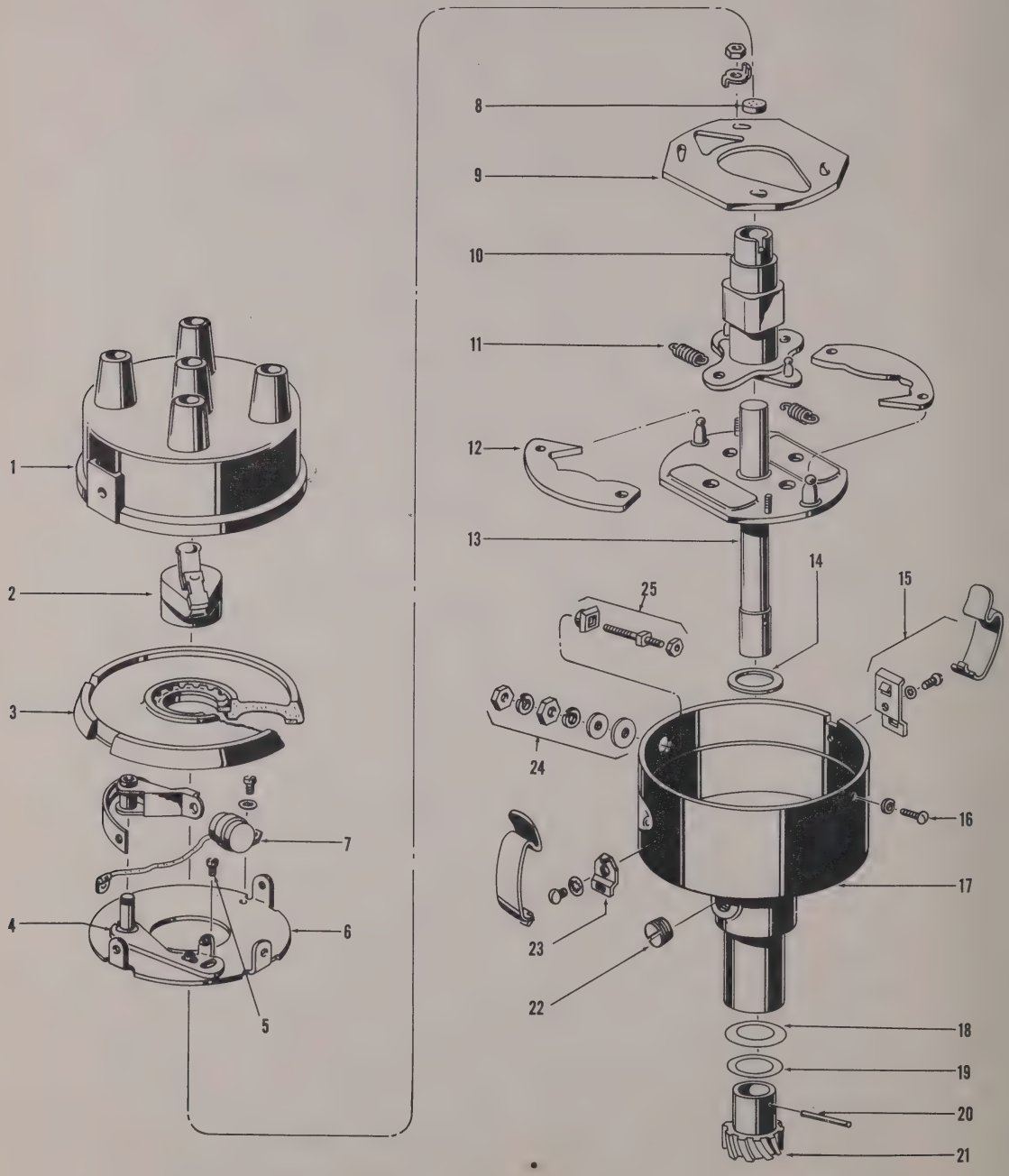

FIG. 27

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	FIG. 27 DISTRIBUTOR ASSEMBLY — Cont'd.
24	120622	2	2	-	★	★	★	NUT - Distributor - Terminal Stud - Outside
	121841	2	2	-	-	-	-	WASHER - Lock
	1904376	1	1	-	#	#	#	WASHER - Terminal Stud - Plain
	1914142	1	-	-	-	-	-	BUSHING - Terminal Stud - Outside
25	1878405	-	1	-	★	★	★	SPACER - Terminal Stud - Inside
	1916805	1	-	-	★	★	★	BUSHING - Terminal Stud - Inside
	1847647	-	1	-	★	★	★	STUD - Distributor Terminal
	1916806	1	-	-	-	-	-	STUD - Distributor Terminal
	1914144	1	-	-	-	-	-	CLIP - Terminal Stud - Inside
	817363	1	1	-	-	-	-	NUT - Distributor Terminal Stud - Inside
		★ TE- & TE-A20 Service Items - Not Illustrated						
	40084	-	-	-	1	-	-	DISTRIBUTOR ASSEMBLY
	40146	-	-	-	-	1	-	DISTRIBUTOR ASSEMBLY - Up to 200,001
	40243	-	-	-	-	-	1	DISTRIBUTOR ASSEMBLY - 200,001 & Future
1	415298	-	-	-	1	1	1	CAP ASSEMBLY - Distributor
	410600	-	-	-	5	5	5	NUT - Moulded - Cable Holding
	185015	-	-	-	5	5	5	WASHER - Split - Cable End
	404435	-	-	-	1	1	1	BUTTON AND SPRING ASSEMBLY - Carbon
2	408355	-	-	-	1	1	1	ROTOR - Distributor
3	415293	-	-	-	1	1	1	COVER - Distributor Dust - With Felt
4	407050	-	-	-	1	1	1	CONTACT SET - Distributor Breaker
7	407044	-	-	-	1	1	1	CONDENSER - Distributor
10	415046	-	-	-	1	1	1	CAM - Distributor Breaker
11	416412	-	-	-	2	-	-	SPRING - Distributor Advance Weight
	415474	-	-	-	-	2	2	SPRING - Distributor Advance Weight up to 200,001
	419130	-	-	-	-	-	2	SPRING - Distributor Advance Weight - 200,001 & Future
12	415729	-	-	-	2	2	2	WEIGHT - Distributor Advance
13	416517	-	-	-	1	1	1	SHAFT AND ACTION PLATE - Up to 200,001
	416551	-	-	-	-	-	1	SHAFT AND ACTION PLATE - 200,001 & Future
	189272	-	-	-	1	-	-	BEARING - Cam - Use on 40084-A & B & 40146 - A
	189295	-	-	-	1	1	1	BEARING - Cam - Use on 40084 - D,E,F, & 40146-B & D
	189296	-	-	-	-	-	1	BEARING - Cam - 200,001 & Future
15	415117	-	-	-	2	2	2	SPRING - Distributor Cap
17	410590	-	-	-	1	1	1	BUSHING - Bottom
18	163667	-	-	-	1	1	1	WASHER - Pinion Gear
20	TS-12104	-	-	-	1	-	-	PIN - Distributor - Gear
21	1291	-	-	-	1	-	-	GEAR - Distributor - Drive
	410601	-	-	-	-	1	1	DOG - Distributor - Drive
24 25	405319	-	-	-	1	1	1	GASKET - Insulator - Paper
	407019	-	-	-	1	1	1	SCREW - Distributor Terminal
	415057	-	-	-	1	1	1	INSULATOR - Distributor Terminal - Short
	415058	-	-	-	1	1	1	INSULATOR - Distributor Terminal - Long
	165040	-	-	-	1	1	1	NUT - Distributor Terminal
#	400843	-	-	-	1	1	1	SUNDRY SET
	407010	-	-	-	-	1	1	CONNECTOR - Condenser to Terminal
	415034	-	-	-	1	1	1	LEVER - Distributor Attaching - Up to 200,001
	415158	-	-	-	-	-	1	LEVER - Distributor Attaching - 200,001 & Future

Sundry Sets contain those TE or TE-A Parts shown with Symbol #

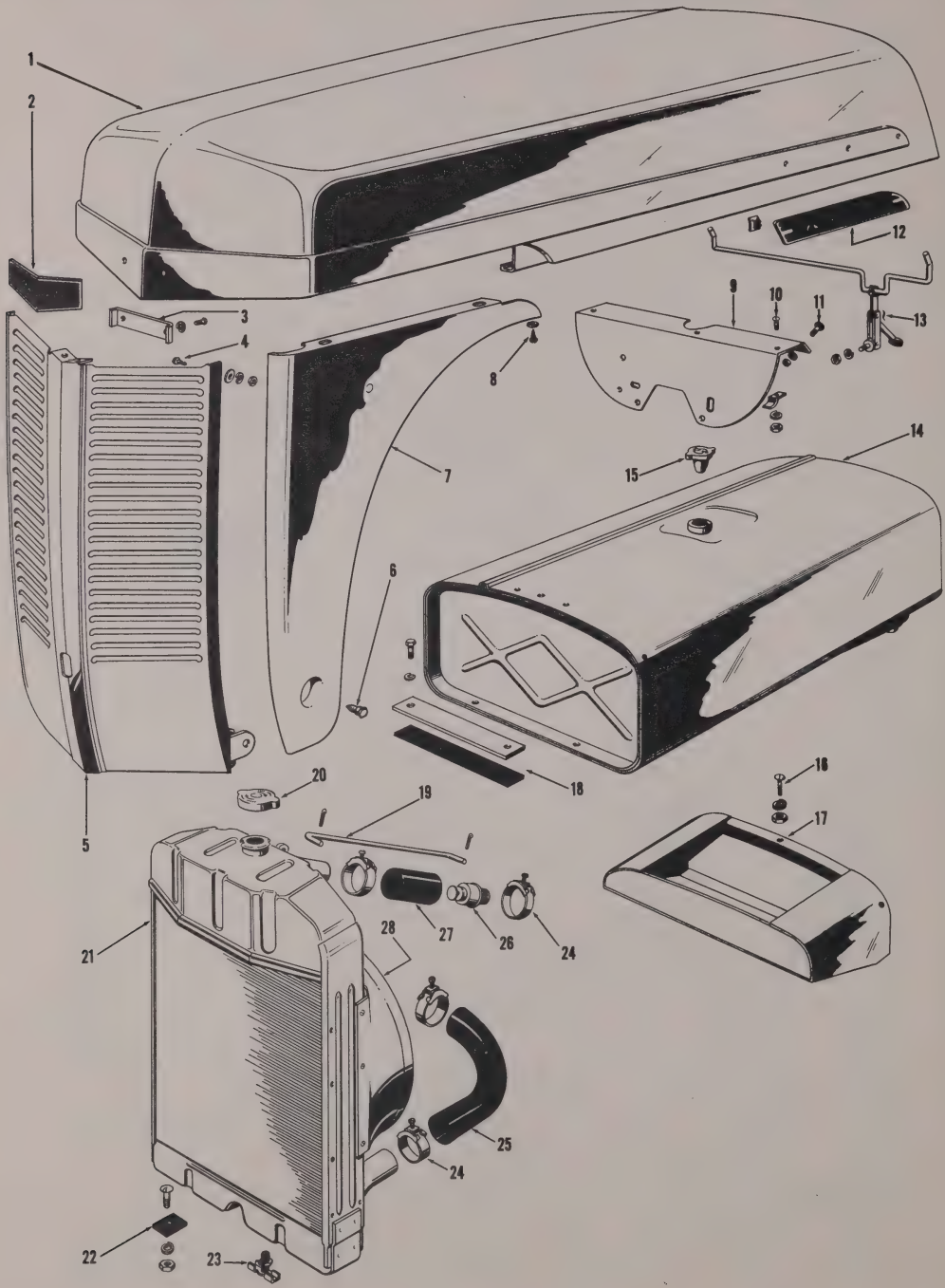

FIG. 28

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 28 HOOD, RADIATOR, FUEL TANK AND RELATED PARTS
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
1	TO-16624-B	1	1	-	★	★	★	HOOD TOP PANEL ASSEMBLY
2	TO-8215	1	1	-	1	1	1	NAME PLATE - Hood
3	TO-8217-A	1	1	-	-	-	-	BRACKET - Hood Name Plate
	19-112-31	2	2	-	2	2	2	SCREW - Rd. Hd. - Bracket to Name Plate
	19-14	2	2	-	2	2	2	WASHER - Lock
4	25-001-50	14	14	-	★	★	★	BOLT - Hex Head - Grille to Side Panels and Hood
	25-104	14	14	-	★	★	★	WASHER - Flat
	25-14	14	14	-	-	-	-	WASHER - Lock
	25-003	14	14	-	-	-	-	NUT - Hex
5	TO-8206-B	1	1	-	★	★	★	GRILLE & STOP SUPPORT ASSEMBLY
6	TO-16943	2	2	-	2	2	2	BOLT - Pivot - Side, Panel, Grille to Front Axle
7	TO-16613-A	1	1	-	★	★	★	PANEL ASSEMBLY - Side - L.H.
	TO-16615-A	1	1	-	★	★	★	PANEL ASSEMBLY - Side - R.H. - Not Illustrated
8	S-9579-A	2	2	-	★	★	★	SCREW - Side Panels to Hood Top
	16-14	2	2	-	-	-	-	WASHER - Lock - Side Panel to Hood Top
9	TO-3810-A	-	1	-	★	★	★	PANEL - Dash
	TO-3810-B	1	-	-	-	-	-	PANEL - Dash
10	19-112-38	3	3	-	-	-	-	SCREW - Rd. Hd. - Hood Latch Lever to Dash Panel
	TO-16605	3	3	-	-	-	-	CLIP - Hood Latch
	19-14	3	3	-	-	-	-	WASHER - Lock
	19-2103	3	3	-	-	-	-	NUT - Hex
11	TO-3535	2	2	-	2	2	2	BOLT - Carriage- Dash to Instrument Panel
	31-14	2	2	-	2	2	2	WASHER - Lock
	31-003	2	2	-	2	2	2	NUT - Hex
12	TO-16660-A	-	1	-	1	1	1	NAME PLATE - Hood Side - R.H. - Not Illustrated
	TO-16660-B	1	-	-	-	-	-	NAME PLATE - Hood Side - R.H. - Not Illustrated
	TO-16661-A	-	1	-	1	1	1	NAME PLATE - Hood Side - L.H.
	TO-16661-B	1	-	-	-	-	-	NAME PLATE - Hood Side - L.H.
	S-10111	6	6	-	6	6	6	SPEED NUT - Hood Side Name Plate
13	TO-16610	1	1	-	★	★	★	CLAMP & LEVER ASSEMBLY - Hood Latch
	44-14	1	1	-	-	-	-	WASHER - Lock
	44-003	1	1	-	-	-	-	NUT - Hex
14	TO-9002-A	1	1	-	1	1	★	TANK & CAP ASSEMBLY - Fuel Composed of Tank not serviced and item 15
15	TO-9032	1	1	-	★	★	★	CAP - Fuel
16	25-112-50	3	3	-	-	-	-	SCREW - Rd. Hd. - Fuel Tank to Tool Tray
	25-14	3	3	-	-	-	-	WASHER - Lock
	25-2103	3	3	-	-	-	-	NUT - Hex Mach.
17	TO-17005-A	1	1	-	★	★	★	TOOL TRAY
18	TO-9068	2	2	-	-	2	2	STRAP - Fuel Tank
	TO-9067-A	4	4	-	-	4	4	PAD - Fuel Tank
	31-101-88	4	4	-	4	4	4	SCREW - Cap - Fuel Tank Attachment
	31-14	4	4	-	4	4	4	WASHER - Lock
19	TO-8038-A	1	1	-	1	★	★	TIE ROD - Radiator
	09-05-50	2	2	-	2	2	2	PIN - Cotter
20	TO-8100-A1	1	1	-	★	★	★	CAP - Radiator
21	TO-8009	1	1	-	1	1	1	RADIATOR - W/Item 22 for TE & TE-A20

Continued on Page 85

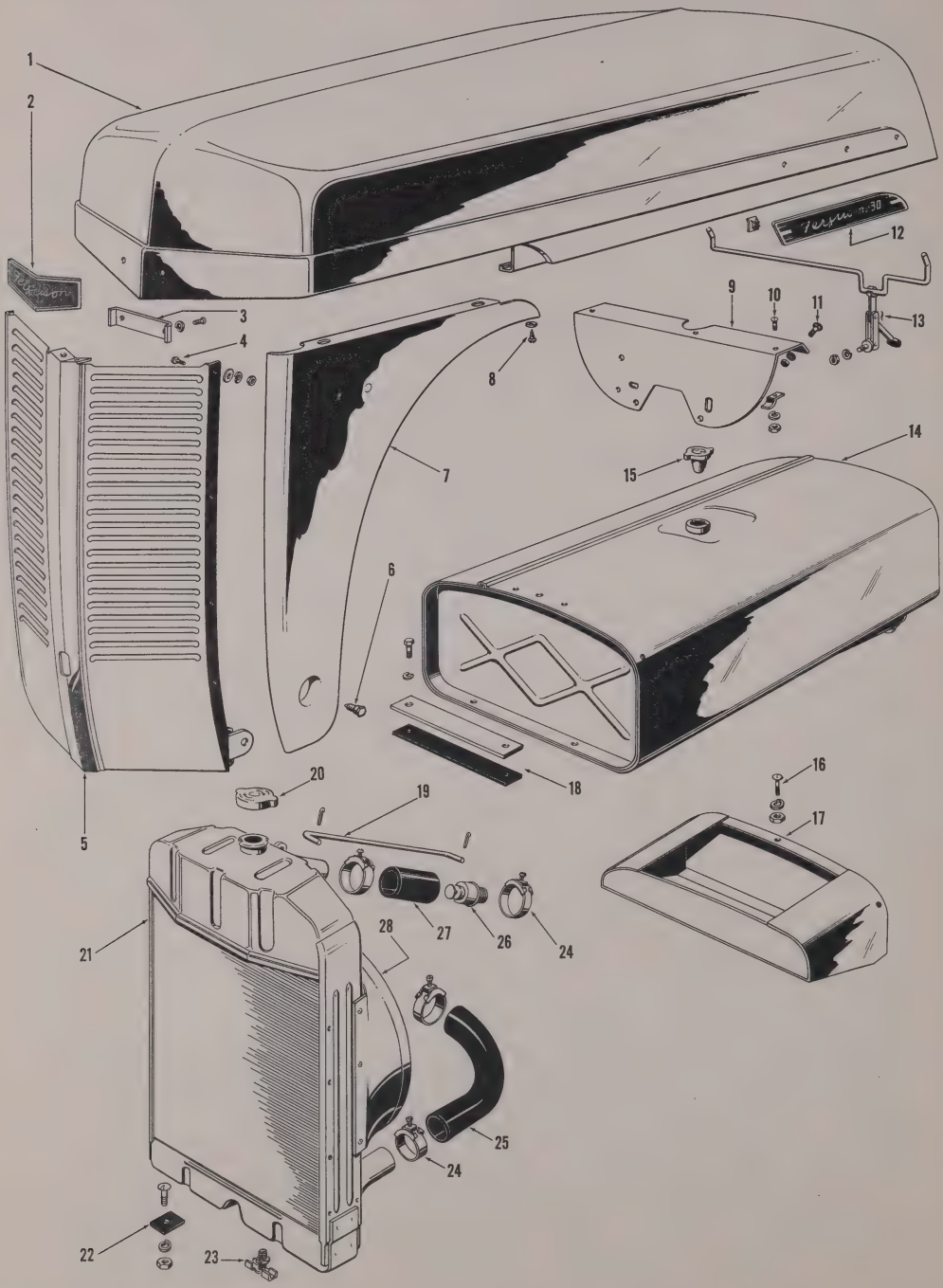

FIG. 28

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 28 HOOD, RADIATOR, FUEL TANK AND RELATED PARTS—Cont'd.
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
22	44-011-125	2	2	-	2	2	2	BOLT - Carriage - Radiator To Front Axle Support
	TO-8125	2	2	-	2	2	2	PAD - Radiator Support
	44-14	2	2	-	2	2	2	WASHER - Lock
	44-003	2	2	-	2	2	2	NUT - Hex
23	TO-8115	1	1	-	1	1	1	DRAIN COCK - Radiator
24	S-10085	4	4	-	4	4	4	CLAMP - Radiator Hose
25	TO-8286	1	1	-	1	★	★	HOSE - Radiator - Bottom
26	TO-8575	1	1	-	1	-	-	THERMOSTAT
27	TO-8260	1	1	-	1	★	★	HOSE - Radiator - Top
28	TO-8146	1	1	-	1	★	★	SHROUD - Radiator - Shown in Position
	S-9754-B	7	7	-	7	7	7	SCREW - Self Tapping
	★TE- & TE-A20 Service Items - Not Illustrated							
1	9507	-	-	-	1	1	1	HOOD TOP PANEL ASSEMBLY
4	1360	-	-	-	8	8	8	SCREW - Grill to Side Panels and Hood
	16-14	-	-	-	8	8	8	WASHER - Lock
5	9524	-	-	-	1	1	1	GRILLE ASSEMBLY - R.H.
	9523	-	-	-	1	1	1	GRILLE - ASSEMBLY - L.H.
	9533	-	-	-	1	1	1	CENTER BAR & LOWER PANEL
7	9531	-	-	-	1	1	1	PANEL ASSEMBLY - Side - L.H.
	9532	-	-	-	1	1	1	PANEL ASSEMBLY - Side - R.H.
8	31-101-50	-	-	-	8	8	8	SCREW - Cap - Side Panel to Hood
	31-14	-	-	-	8	8	8	WASHER - Lock
	31-2103	-	-	-	8	8	8	NUT - Hex
9	7104	-	-	-	1	1	1	BULKHEAD - Up to 200,001
	7332	-	-	-	-	-	1	BULKHEAD - 200,001 & Future
13	1429	-	-	-	2	2	2	HANDLE ASSEMBLY - Hood Latch
	1431	-	-	-	2	2	2	FERRULE - Handle
	1432	-	-	-	2	2	2	NUT - Special
	1433	-	-	-	1	1	1	LEVER - L.H.
	1434	-	-	-	1	1	1	LEVER - R.H.
	4170	-	-	-	1	1	1	CATCH ASSEMBLY - L.H.
	4171	-	-	-	1	1	1	CATCH ASSEMBLY - R.H.
14	4477	-	-	-	-	-	1	FUEL TANK - 200,001 & Future - with Cap
15	1564	-	-	-	1	1	1	CAP - Fuel Tank - Lock Type - with Wire & Chain
	1897	-	-	-	1	1	1	CAP - Fuel Tank - Screw Type - with Wire & Chain
17	8549	-	-	-	1	1	1	TOOL BOX - Up to 200,001
	8701	-	-	-	-	-	1	TOOL BOX - 200,001 & Future
19	1567	-	-	-	-	1	1	TIE ROD - Radiator
20	TS-8111	-	-	-	1	1	1	GASKET - Radiator Cap
	TS-8100	-	-	-	1	1	1	CAP - Radiator
25	TS-8286	-	-	-	–	1	1	HOSE - Radiator - Bottom
27	TS-8260	-	-	-	-	1	1	HOSE - Radiator - Top
28	9582	-	-	-	-	1	1	SHROUD - Radiator - Up to 200,001
	9686	-	-	-	-	-	1	SHROUD - Radiator - 200,001 & Future
	4167	-	-	-	2	2	2	RUNNER - Hood Side
	8566	-	-	-	1	1	1	STRAP - Hood Stiffening
	1944	-	-	-	1	1	1	SEAL - Rubber - Hood Strap - Includes Rivets
	7108	-	-	-	1	1	1	SUPPORT - Hood
	1423	-	-	-	2	2	2	CLIP - Hood Support
	25-001-88	-	-	-	2	2	2	BOLT - Hex Head - Clip to Gas Tank
	25-14	-	-	-	2	2	2	WASHER - Lock
	25-003	-	-	-	2	2	2	NUT - Hex
	1424	-	-	-	2	2	2	PACKING - Hood Support
	1809	-	-	-	1	1	1	PLATE - Cover - Cowl - Up to 200,001

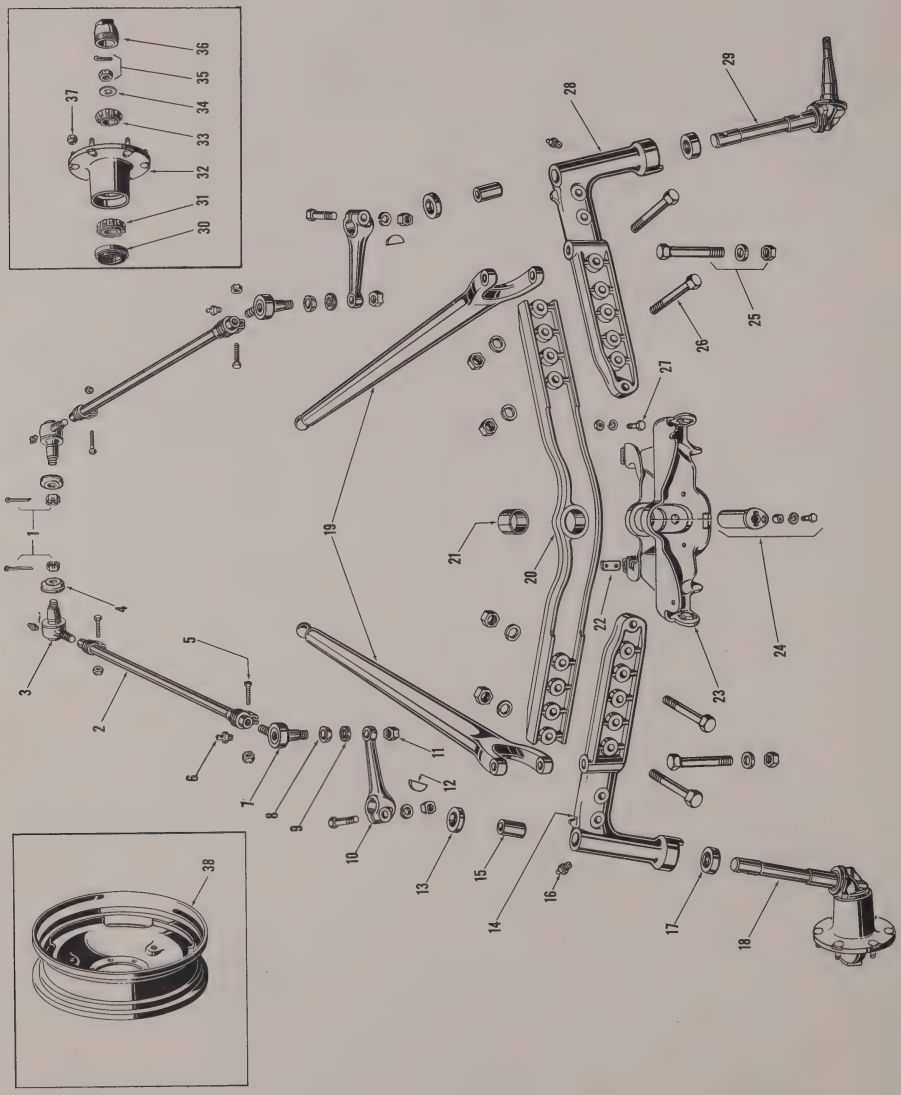
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FIG. 29

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 29 AXLE-FRONT-WHEEL, HUB AND RELATED PARTS
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
1	50-013	2	2	2	2	2	2	NUT - Slotted Hex - Drag Link to Steering Sector
	12-05-75	2	2	2	2	2	2	PIN - Cotter
2	TO-3341	2	2	2	2	2	2	LINK ASSEMBLY - Steering Drag Composed of Rod not serviced and Items 3 thru 7
3	TO-3340	1	1	-	★	★	★	END ASSEMBLY - Steering Drag Link - Rear Composed of Item 4
4	TO-3324	1	1	1	★	★	★	COVER ASSEMBLY - Dust
5	31-001-125	2	2	2	2	2	2	BOLT - Hex Head - Rod Link Clamp
	S-9773-D	2	2	2	2	2	2	NUT - Tri - Lock
6	S-10110	2	2	-	★	★	★	FITTING - Lubrication - Drag Link End
7	TO-3289	1	1	1	★	★	★	END ASSEMBLY - Steering Drag Link - Front
8	TO-3336	2	2	2	-	-	-	RETAINER - Grease - Steering Drag Link
9	TO-3332	2	2	2	★	★	★	COVER - Dust - Steering Drag Link
10	TO-3130-A	2	2	-	2	2	2	ARM - Front Axle Spindle
	44-001-262	2	2	2	2	2	2	BOLT - Hex Head - Spindle Arm Clamp
	44-14	2	2	2	2	2	2	WASHER - Lock
	44-003	2	2	2	2	2	2	NUT - Hex
11	S-9773-A	2	2	2	2	2	2	NUT - Tri - Lock - Drag Link End to Spindle Arm
12	31-09-125	2	2	-	2	2	2	KEY - Woodruff - Arm to Spindle Shaft
13	TO-3528	2	2	2	2	2	2	SEAL - Dust - Spindle Arm
14	TO-3006	1	1	1	1	1	1	ARM ASSEMBLY - Front Axle - R.H. Composed of Item 15
15	TO-3109	2	2	-	2	2	2	BUSHING - Axle Arm Spindle
16	12-107	2	2	2	2	2	2	FITTING - Lubrication - Front Axle Arm
17	S-9855	2	2	2	2	2	2	BEARING ASSEMBLY - Front Axle Arm Spindle
18	TO-3105	1	1	-	★	1	1	SPINDLE - Front Axle - R.H. - Less Hub Assembly
19	TO-3405	2	2	2	2	2	2	ROD ASSEMBLY - Radius
20	TO-3001	1	1	1	1	1	1	AXLE ASSEMBLY - Front - Center Composed of Item 21
21	TO-3039	1	1	1	1	1	1	BUSHING - Front Axle Center
22	TO-3026	1	-	-	-	-	-	SPACER - Support
23	TO-3029	1	1	-	1	★	★	SUPPORT ASSEMBLY - Front Axle Stamping } Alternates
	TO-3029-1	1	1	-	1	★	★	SUPPORT ASSEMBLY - Front Axle - Casting } Alternates
	S-9775-A	1	1	-	1	1	1	NUT - Square
24	TO-3126-A	-	1	-	1	★	★	PIN ASSEMBLY - Front Axle - Use with TO-3029-A Support
	50-001-112	-	1	-	1	1	1	BOLT - Hex Head - Front Axle Pin to Support
	50-14	-	1	-	1	1	1	WASHER - Lock
	TO-3126-B	-	1	-	-	-	-	PIN ASSEMBLY - Front Axle - Use with 7/16 Bolt
	TO-3124	-	1	-	-	-	-	BUSHING - Front Axle Pin to Support
	44-001-125	-	1	-	-	-	-	BOLT - Hex Head
	44-14	-	1	-	-	-	-	WASHER - Lock
	44-204	-	1	-	-	-	-	WASHER - Flat
	TO-3126-C	1	1	-	-	-	-	PIN ASSEMBLY - Front Axle - Use with 5/8 Bolt
	TO-3124-A	1	1	-	-	-	-	BUSHING - Front Axle Pin to Support
	62-001-138	1	1	-	-	-	-	BOLT - Hex Head
	62-14	1	1	-	-	-	-	WASHER - Lock
	62-204	1	1	-	-	-	-	WASHER - Flat

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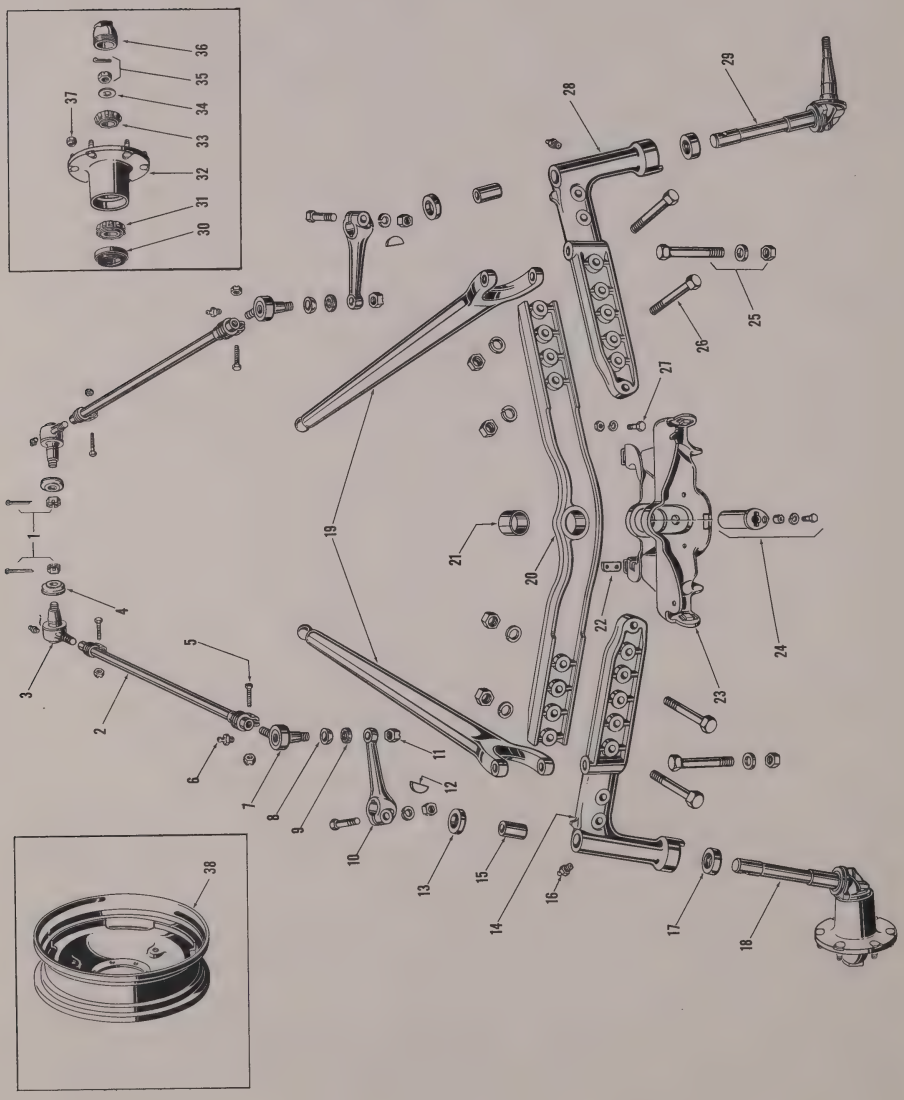
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FIG. 29

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	FIG. 29 AXLE-FRONT-WHEEL, HUB AND RELATED PARTS—Cont'd.
25	62-001-531	2	2	2	2	2	2	BOLT - Hex Head - Radius Rod to Axle Arm
	62-204	2	2	2	2	2	2	WASHER - Flat
	62-003	2	2	2	2	2	2	NUT - Hex
26	62-001-288	4	4	4	4	4	4	BOLT - Hex Head - Front Axle Arms to Center Axle
	62-204	4	4	4	4	4	4	WASHER - Flat
	62-003	4	4	4	4	4	4	NUT - Hex
27	62-001-325	4	4	-	4	4	4	BOLT - Hex Head - Front Axle Support to Crankcase
	62-14	4	4	-	4	4	4	WASHER - Lock
	62-003	4	4	-	4	4	4	NUT - Hex
28	TO-3007	1	1	1	1	1	1	ARM ASSEMBLY - Front Axle - L.H. Composed of Item 15
29	TO-3106	1	1	-	★	1	1	SPINDLE - Front Axle - L.H.
30	TO-1190	2	2	2	2	2	2	SEAL ASSEMBLY - Dust - Front Wheel Hub
31	S-9839	2	2	-	★	2	2	CONE AND ROLLER ASSEMBLY - Inner
32	TO-1104-1	2	2	-	★	2	2	HUB ASSEMBLY - Front Wheel Composed of Hub not serviced and
	S-9838	1	1	-	-	1	1	CUP - Bearing - Inner - Pressed in Position
	S-9843	1	1	-	-	1	1	CUP - Bearing - Outer - Pressed in Position
	TO-1107	6	6	-	6	6	6	BOLT - Front Wheel Hub - Pressed in Position
33	S-9842	2	2	-	★	2	2	CONE AND ROLLER ASSEMBLY - Outer
34	TO-1195	2	2	-	2	2	2	WASHER - Retainer - Front Hub Bearing
35	75-013	2	2	-	2	2	2	NUT - Slotted Hex - Front Axle Spindle
	16-05-125	2	2	-	2	2	2	PIN - Cotter
36	TO-1139	2	2	2	2	2	2	CAP - Front Wheel Hub
37	S-9512-A	12	12	12	12	12	12	NUT - Front Wheel Hub Bolt
38	TO-1015-A	2	2	-	2	2	2	RIM ASSEMBLY - Wheel - For 4.00 -19 Tire
	S-9500-A	2	2	-	2	2	2	RIM ASSEMBLY - Wheel - For 6.00-16 Tire - Not Illustrated

★ TE - & TE-A20 Service Items - Not Illustrated

3	TS-3374	-	-	-	2	2	2	END ASSEMBLY - Steering Drag Link - Rear
4	1923	-	-	-	2	2	2	COVER ASSEMBLY - Dust - Rear Drag Link End
6	25-6007	-	-	-	2	2	2	FITTING - Lubrication
7	TS-3289	-	-	-	2	2	2	END ASSEMBLY - Steering Drag Link - Front
9	1923	-	-	-	2	2	2	COVER ASSEMBLY - Dust - Front Drag Link End
	1888	-	-	-	2	2	2	CIRCLIP - Front Drag Link End Dust Cover
18	8517	-	-	-	1	-	-	SPINDLE - Front Axle - R.H. -49,999 & Future Order TO-3105
23	8703	-	-	-	-	1	1	SUPPORT ASSEMBLY - Front Axle
24	1569	-	-	-	-	1	1	PIN - Front Axle Support
29	8518	-	-	-	1	-	-	SPINDLE - Front Axle - L.H. 49,999 & Future Order TO-3106
31	S-9800	-	-	-	1	-	-	CUP - Inner } to 49,998 and 52,497 to 52,566,
	S-9801	-	-	-	1	-	-	CONE AND ROLLER } after 52,566 Order S-9839 & S-9838
32	7117	-	-	-	2	-	-	HUB ASSEMBLY - Front Wheel 49,999 & Future Order TO-1104-1
	S-353055	-	-	-	2	2	2	PLUG - Pipe
33	S-9814	-	-	-	1	-	-	BEARING ASSEMBLY - Outer to 49,998 and 52,497 to 52,556 after 52,566 Order S-9842 and S-9843
	TO-3287	-	-	-	4	4	4	CLAMP - Steering Drag Link

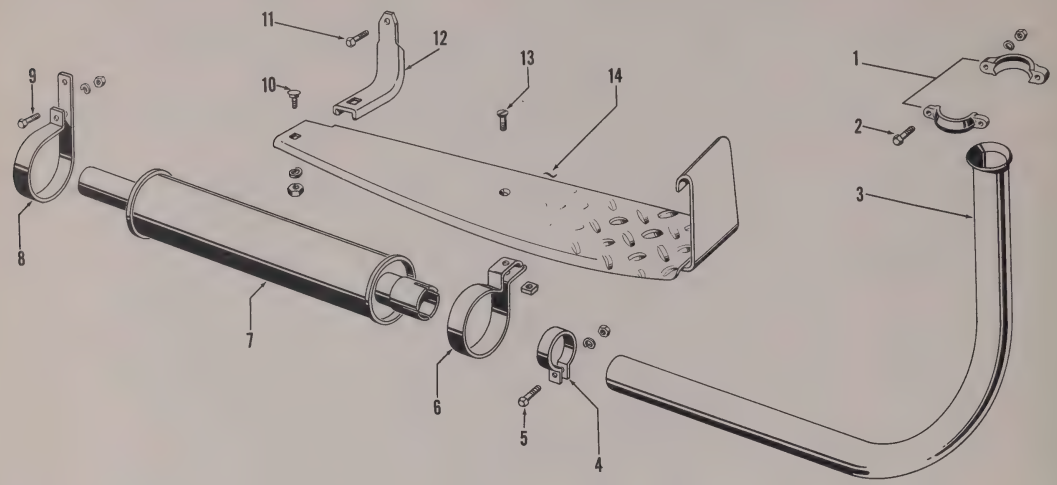

FIG. 30

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	FIG. 30 MUFFLER AND STEP PLATES
1	TO-5251	2	2	2	2	-	-	CLAMP - Muffler Inlet Pipe
	31-101-162	2	2	2	2	★	★	SCREW - Cap - Clamp to Inlet Pipe
2	31-14	2	2	2	2	★	★	WASHER - Lock
	31-2103	2	2	2	2	★	★	NUT - Hex Mach.
3	TO-5246	1	1	-	★	★	★	PIPE - Inlet - Manffold to Muffler
4	TO-5260	1	1	-	1	1	1	CLIP - Inlet Pipe to Muffler
	25-101-100	1	1	-	1	1	1	SCREW - Cap - Inlet Pipe to Muffler Clip
5	25-14	1	1	-	1	1	1	WASHER - Lock
	25-2103	1	1	-	1	1	1	NUT - Hex Mach.
6	TO-16461	1	1	-	★	★	★	CLIP - Muffler to Step Plate
7	TO-5230	1	1	-	★	★	★	MUFFLER ASSEMBLY
8	TO-5264	1	1	-	1	1	1	CLIP - Muffler to Rear Axle Housing
	31-101-100	1	1	-	1	1	1	SCREW - Cap - Muffler Clip to Rear Axle Housing
9	31-14	1	1	-	1	1	1	WASHER - Lock
	31-2103	1	1	-	1	1	1	NUT - Hex Mach.
	38-011-88	2	2	-	-	-	-	BOLT - Carriage - Rear Step Bracket to Step Plate
10	38-14	2	2	-	-	-	-	WASHER - Lock
	38-003	2	2	-	-	-	-	NUT - Hex
11	44-101-125	2	2	-	-	-	-	SCREW - Cap - Rear Step Bracket to Center Housing
12	TO-16452-A	2	2	-	-	-	-	BRACKET - Rear Step Plate
13	25-102-100	1	1	-	-	-	-	SCREW - Flat Hd. - Step Plate to Muffler Clip
	S-9774-B	1	1	-	-	-	-	NUT - Square
14	TO-16450-1	1	1	-	★	★	★	STEP PLATE ASSEMBLY - R.H.
	TO-16451-1	1	1	-	★	★	★	STEP PLATE ASSEMBLY - L.H. - Not Illustrated Composed of Items 10 and 12
	★ TE-A20 Service Items - Not Illustrated							
	56561	-	-	-	-	2	2	STUD - Exhaust Pipe to Manifold
2	38-14	-	-	-	-	2	2	WASHER - Lock
	38-003	-	-	-	-	2	2	NUT - Hex
	TS-5245	-	-	-	1	-	-	PIPE - Inlet - Manifold to Muffler
3	8584	-	-	-	-	1	1	PIPE - Inlet - Manifold to Muffler - Up to 200,001
	8756	-	-	-	-	-	1	PIPE - Inlet - Manifold to Muffler - 200,001 & Future
6	1383	-	-	-	1	1	1	CLIP - Exhaust Shield to Muffler
7	TS-5230	-	-	-	1	1	1	MUFFLER ASSEMBLY
14	TS-85	-	-	-	1	1	1	STEP KIT - Tractor
	8561	-	-	-	1	1	1	SHIELD ASSEMBLY - Muffler Exhaust
	1276	-	-	-	1	1	1	HALF CLIP - Lower Exhaust Shield
	1574	-	-	-	-	1	1	GASKET - Exhaust Flange
	1954	-	-	-	-	1	1	BRACKET - Exhaust Pipe Clip
	1955	-	-	-	-	1	1	CLIP - Exhaust Pipe - Bracket to Cylinder Block

REF. NO.	PART NO.	QUAN. REQUIRED						GROUP 31 TOOLS AND SPECIAL EQUIPMENT
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
	TO-17014	1	1	-	1	1	1	WRENCH - Open End 11/16 and 1-1/16 Hex
	TO-17016-1	1	1	-	1	1	1	WRENCH - Open End - 1/2 and 9/16 Hex
	TO-17018-1	1	1	-	1	1	1	WRENCH - Open End - 3/8 and 7/16 Hex
	TO-17026	1	1	-	1	-	-	WRENCH - Socket - Spark Plug - 18MM
	1814	-	-	1	-	1	1	WRENCH - Socket - Spark Plug - 14MM
	TO-17028	1	1	-	1	1	1	BAR - Socket Wrench
	TO-17040	1	1	-	1	1	1	CRANK - Starting
	M-1001	1	1	1	1	1	1	PAINT - Gray Enamel - Sold in 1 Quart, 1 Gallon and also 12 oz. Self Sprayer Cans
	A-TO-68	1	1	1	1	1	1	STORM COVER
	A-TO-70	1	1	-	1	1	1	JACK ASSEMBLY - Tractor
	A-TO-74	1	1	-	1	1	1	HANDLEVER KIT - Brake
								Composed of
	A-TO-2001	1	1	-	1	1	1	U-BOLT - Handlever to Pedal
	25-14	2	2	-	2	2	2	WASHER - Lock
	25-003	2	2	-	2	2	2	NUT - Hex
	A-TO-2002	1	1	-	1	1	1	HANDLEVER - Brake
	44-14	1	1	-	1	1	1	WASHER - Lock
	44-003	1	1	-	1	1	1	NUT - Hex
	A-TO-75	1	-	-	-	-	-	DUAL REAR WHEEL KIT - Attaching 11" Tires
								Composed of
	A-TO-1116	2	-	-	-	-	-	SPACER - Wheel
	A-TO-1117	16	-	-	-	-	-	NUT - Special - Wheel Spacer
	A-TO-77	1	1	-	1	-	-	TIRE PUMP KIT - For TE-A Order A-TO-17085 also
								Composed of
	A-TO-17081	1	1	-	1	1	1	SCREW - Adapter Retaining
	A-TO-17083	1	1	-	1	-	-	ADAPTER - Tire Pump - 18MM
	A-TO-17084	1	1	-	1	1	1	WASHER - Adapter - Rubber
	A-TO-17085	-	-	1	-	1	1	ADAPTER - Tire Pump - 14MM
	A-TO-78	1	1	-	1	1	1	DUAL REAR WHEEL KIT - Attaching 10" Tires
								Composed of
	A-TO-1112	2	2	-	2	2	2	SPACER - Wheel
	A-TO-1114	16	16	-	16	16	16	NUT - Special - Wheel Spacer
	A-TO-84	1	1	1	1	1	1	TEMPERATURE INDICATOR KIT
								Composed of Indicator not serviced and
	A-TO-10884	-	-	-	1	1	1	ADAPTER - Temperature Indicator
	A-TO-17668-A	3	3	3	2	2	2	CLIP - Temperature Indicator Cable
	A-TO-17125	1	1	1	1	1	1	GUN - Grease - Lever Type
	A-TO-17128-A	1	1	1	1	1	1	ADAPTER - Grease Gun

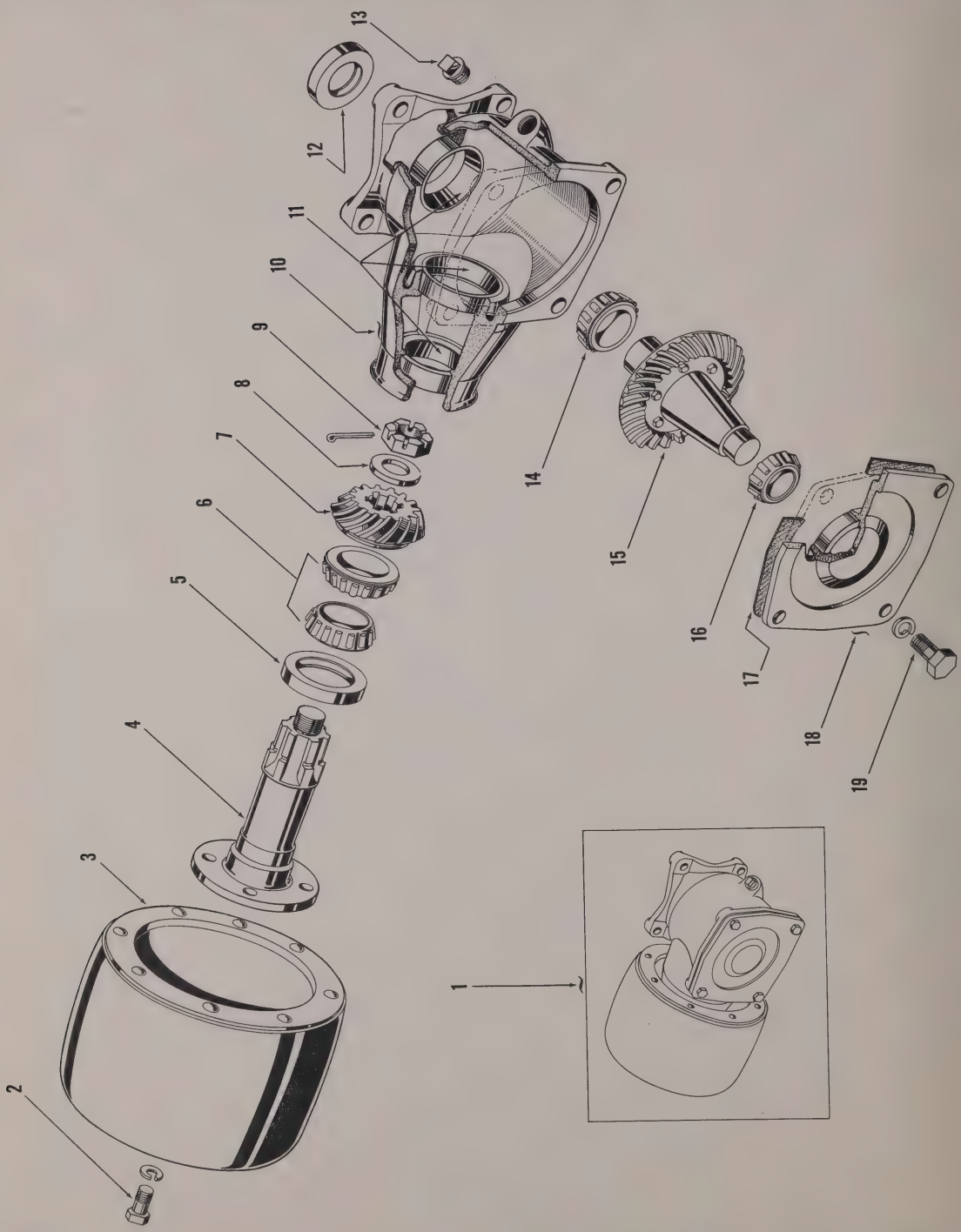

FIG. 32

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 32 POWER TAKE-OFF PULLEY ATTACHMENT
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
1	A-TO-66	1	1	1	1	1	1	PULLEY ATTACHMENT ASSEMBLY Composed of Items 2 thru 19
2	44-001-88	4	4	4	4	4	4	BOLT - Hex Head - Drive Pulley to Shaft
	44-14	4	4	4	4	4	4	WASHER - Lock
3	A-TO-740	1	1	1	1	1	1	PULLEY - Power Take-Off - 9" Dia.
	A-TO-736	1	1	1	1	1	1	DRIVE ASSEMBLY - Pulley - Not Illustrated Composed of Items 4 thru 19
4	A-TO-746	1	1	1	1	1	1	SHAFT - Pulley Driven
5	S-9904	1	1	1	1	1	1	SEAL - Oil Pulley Driven Shaft
6	S-9809	2	2	2	2	2	2	CONE AND ROLLER ASSEMBLY
	A-TO-713	1	1	1	1	1	1	GEAR ASSEMBLY - Pulley Shaft Composed of Items 7 and 15
7	A-TO-745	-	-	-	-	-	-	GEAR - Driven Pulley Shaft - Not Serviced - order A-TO-713
8	62-204	1	1	1	1	1	1	WASHER - Flat - Pulley Drive Shaft
9	62-013	1	1	1	1	1	1	NUT - Slotted Hex - Pulley Driven Shaft
	S-72200	1	1	1	1	1	1	PIN - Hammerlock Cotter
10	A-TO-762	1	1	1	1	1	1	HOUSING ASSEMBLY - Pulley Composed of Housing not serviced and Item 11
11	S-9810	3	3	3	3	3	3	CUP - Bearing - Pressed in Place
12	S-9905	1	1	1	1	1	1	SEAL - Oil - Drive Gear and Shaft Bearing
13	S-353064	1	1	1	1	1	1	PLUG - Pipe - Housing Oil Drain
14	S-9809	1	1	1	1	1	1	CONE AND ROLLER ASSEMBLY
15	A-TO-737	-	-	-	-	-	-	GEAR AND SHAFT - Pulley Drive - Not Serviced - Order A-TO-713
16	S-9812	1	1	1	1	1	1	CONE AND ROLLER ASSEMBLY
17	A-TO-747-A	As Req.	As Req.	As Req.	As Req.	As Req.	As Req.	GASKET - .020 Thick - Pulley Housing Cover
	A-TO-747-B	As Req.	As Req.	As Req.	As Req.	As Req.	As Req.	GASKET - .016 Thick
	A-TO-747-C	As Req.	As Req.	As Req.	As Req.	As Req.	As Req.	GASKET - .012 Thick
18	A-TO-761	1	1	1	1	1	1	COVER ASSEMBLY - Pulley Housing Composed of Cover not serviced and
	S-9813	1	1	1	1	1	1	CUP - Bearing - Pressed in Place
19	44-101-100	4	4	4	4	4	4	SCREW - Cap - Cover to Pulley Housing
	44-14	4	4	4	4	4	4	WASHER - Lock

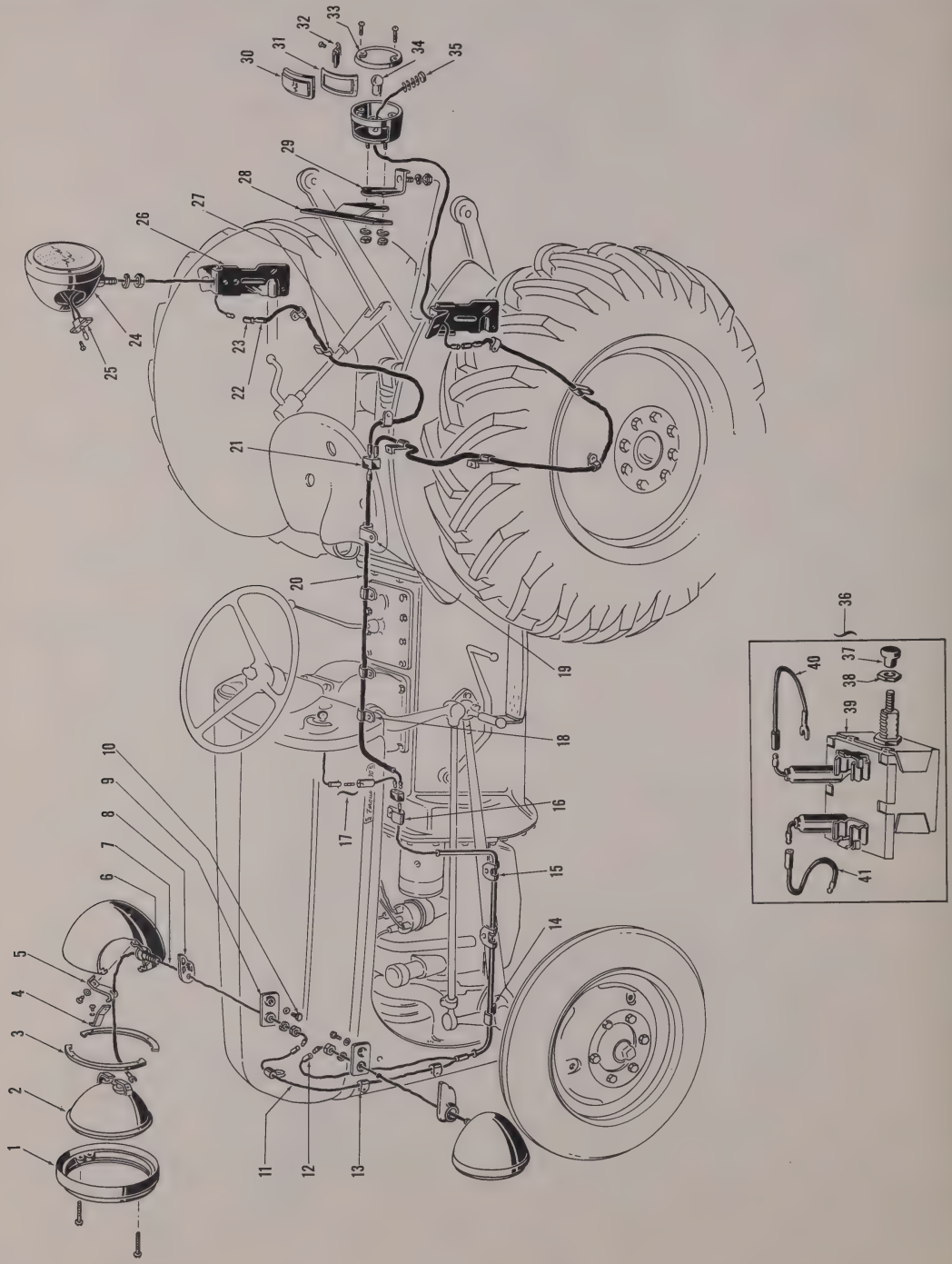
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FIG. 33

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 33 LIGHTING KIT
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
	A-TO-76-A1	1	-	-	-	-	★	LIGHTING KIT
								Composed of the following and Items 1 thru 35
	A-TO-13005-1	1	1	1	1	1	★1	HEADLAMP ASSEMBLY - R.H.
	A-TO-13006-1	1	1	1	1	1	★1	HEADLAMP ASSEMBLY - L.H.
								Composed of Items 1 thru 7
1	A-TO-13045	1	1	1	1	1	1	BEZEL - Headlamp - Casting - Optional with A-TO-13452
	A-TO-13434	2	2	2	2	2	2	SCREW - Round Head - Use w/A-TO-13045
	16-112-125	2	2	2	2	2	2	SCREW - Round Head - Use w/A-TO-13452
	A-TO-13043-1	1	1	1	1	1	1	BEZEL AND BULB ASSEMBLY Composed of A-TO-13452, A-TO-13007 and (4) A-TO-13034-A
	A-TO-13452	1	1	1	1	1	1	BEZEL - Headlamp - Stamping - Optional with A-TO-13045
2	A-TO-13007	1	1	1	1	1	★1	BULB ASSEMBLY - Headlamp
3	A-TO-13034	2	2	2	2	2	2	RING - Headlamp Mounting - Use with A-TO-13045
	A-TO-13034-A	4	4	4	4	4	4	SPRING - Headlamp Mounting - Use with A-TO-13452
4	A-TO-13433	1	1	1	1	1	1	STRAP - Ground
	16-112-38	4	4	4	4	4	4	SCREW - Round Head - Strap to Ring to Bezel
	16-14	4	4	4	4	4	4	WASHER - Lock
5		-	-	-	-	-	-	RETAINER - Lamp Swivel Bolt - Not Serviced
6	A-TO-13022	1	1	1	1	1	1	BOLT - Headlamp Mounting
	50-14	1	1	1	1	1	1	WASHER - Lock - Bolt to Bracket
	50-003	1	1	1	1	1	1	NUT - Hex
7	A-TO-13075	1	1	1	1	1	1	WIRE ASSEMBLY - Headlamp
8	A-TO-13472	1	1	1	1	1	1	MEDALLION - Headlamp Mounting - R.H.
	A-TO-13473	1	1	1	1	1	1	MEDALLION - Headlamp Mounting - L.H.
9	A-TO-13102	2	2	2	2	2	2	REINFORCEMENT - Headlamp Bracket
10	31-001-38	2	2	2	2	2	2	BOLT - Hex Head - Reinforcement to Medallion
	31-14	2	2	2	2	2	2	WASHER - Lock
11	A-TO-17671	1	1	-	1	1	1	WIRING ASSEMBLY - Headlamp Composed of Wire and Conduit not serviced and
12	A-TO-14456	2	2	-	2	2	2	CONNECTOR AND SLEEVE ASSEMBLY
13	A-TO-11655	3	3	-	3	3	3	CLIP - Wiring to Grille
14	A-TO-17669	1	1	-	1	1	1	CLAMP - Wiring to Front Axle Support
	19-112-75	1	1	-	1	1	1	SCREW - Round Head - Clamp to Support
	19-14	1	1	-	1	1	1	WASHER - Lock
	19-2103	1	1	-	1	1	1	NUT - Hex Machine
15	A-TO-17674	2	2	-	2	2	2	CLAMP - Wire to Oil Pan
16	A-TO-11656	1	1	-	1	1	1	CLIP - Wire to Harness
17	A-TO-13160-2	1	-	-	-	-	-	WIRE ASSEMBLY - Switch to Lights Composed of
	A-TO-13180	1	-	-	-	-	-	WIRE ASSEMBLY - Switch to Fuse
	A-TO-13181	1	-	-	-	-	-	WIRE ASSEMBLY - Fuse to Lights
	A-TO-13183	1	-	-	-	-	-	SPRING - Fuse Contact
	A-TO-13184	1	-	-	-	-	-	RETAINER - Fuse
	A-TO-14526	-	-	-	-	-	-	FUSE - Not Serviced
18	A-TO-17668-A	7	7	7	7	7	7	CLIP - Wiring to Axle, Fender, Cover and Panel
19	A-TO-17667	3	3	3	3	3	3	CLAMP - Wiring to Hydraulic Pump Cover
20	A-TO-11653-A	1	1	-	1	1	★1	WIRING ASSEMBLY - Tail Lamp Composed of Items 17, and 21 thru 23
21	A-TO-14487	2	2	-	2	2	2	CONNECTOR ASSEMBLY - Four Way
22	A-TO-14454-C	6	6	-	6	6	6	SLEEVE - Wire Connector
23	A-TO-14456	3	3	-	3	3	3	CONNECTOR AND SLEEVE ASSEMBLY

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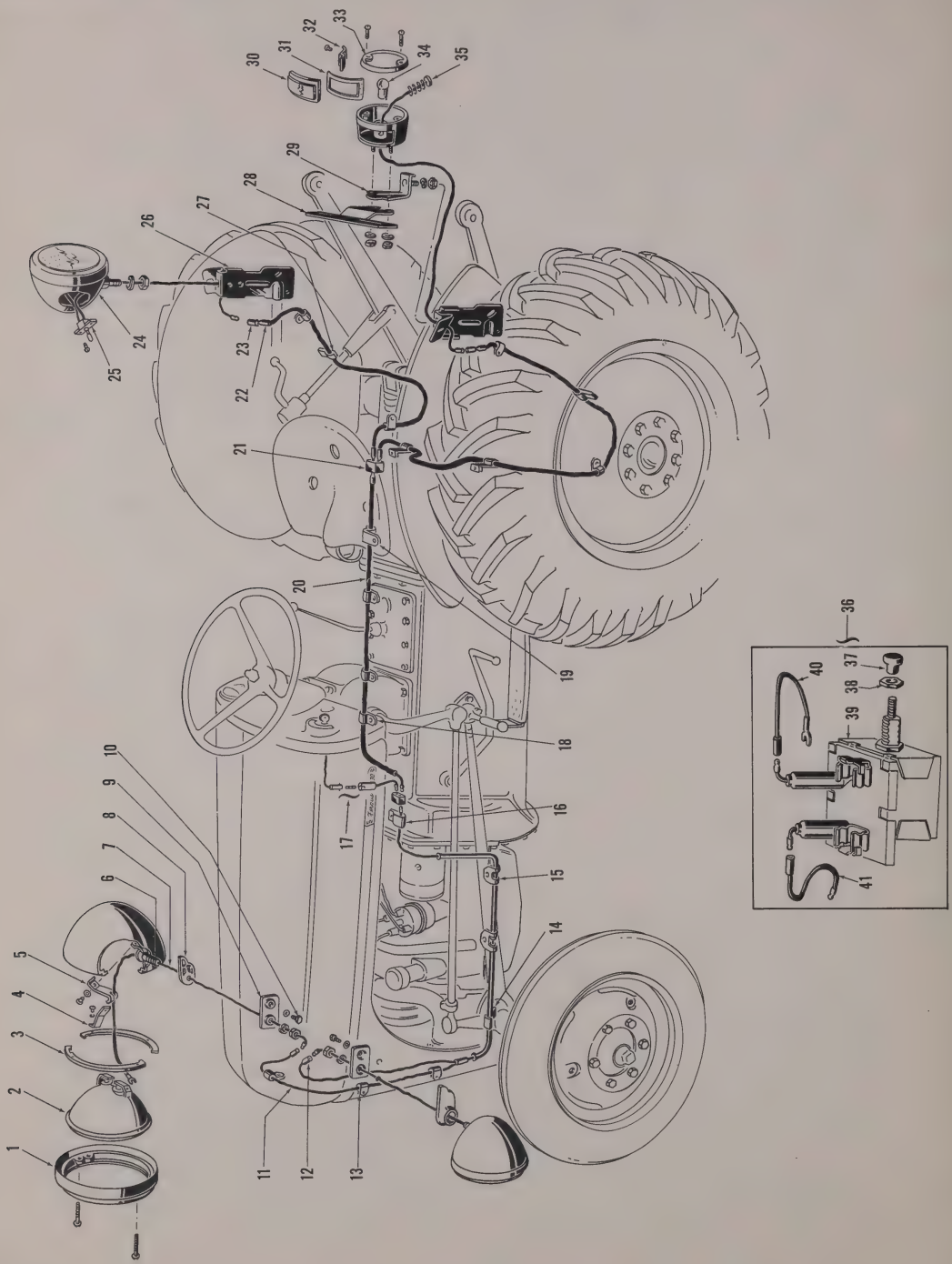
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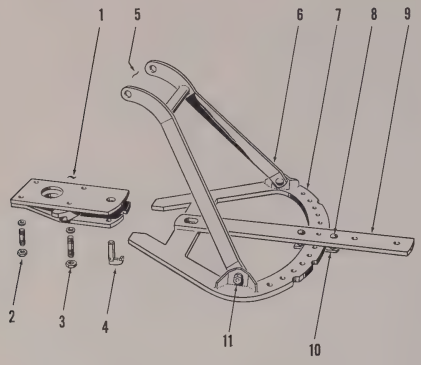
FIG. 33

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 33 LIGHTING KIT—Cont'd.
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
24	A-TO-13035-1	1	1	-	1	1	★1	WORKLAMP ASSEMBLY - Rear Composed of Items 1 thru 7 and 25
25	A-TO-13432	1	1	-	1	1	1	SWITCH - Toggle
	16-112-25	2	2	-	2	2	2	SCREW - Rd. Hd. - Switch to Body
	A-TO-13436	1	1	-	1	1	1	WIRE - Switch to Light Unit
	A-TO-13437	1	1	-	1	1	1	WIRE - Circuit to Switch
26	A-TO-13470-1	1	1	-	1	1	1	BRACKET - Slotted - Rear Fender Lamp - R.H.
	A-TO-13471-1	1	1	-	1	1	1	BRACKET - Slotted - Rear Fender Lamp - L.H.
27	A-TO-14585	2	2	-	2	2	2	CLIP - Wiring to Fender
28	A-TO-13411	1	1	1	1	1	1	BRACKET ASSEMBLY - License
	25-14	2	2	2	2	2	2	WASHER - Lock - Bracket to Support
	25-2103	2	2	2	2	2	2	NUT - Hex Mach.
29	A-TO-13468	1	1	1	1	1	1	SUPPORT ASSEMBLY - License Bracket
	44-14	1	1	1	1	1	1	WASHER - Lock - Support to Bracket - L.H.
	44-003	1	1	1	1	1	1	NUT - Hex
	A-TO-13410-1	1	1	1	1	1	★1	TAIL LAMP ASSEMBLY - Rear Composed of Items 30 thru 35
30	A-TO-13445	1	1	1	1	1	1	LENS - Tail Lamp
31	A-TO-13447	1	1	1	1	1	1	GASKET - License Lens
32	A-TO-13446	2	2	2	2	2	2	CLIP - Tail Lamp Lens Retainer
	S-73204	2	2	2	2	2	2	SCREW - Lens Retaining
33	A-TO-13448	1	1	1	1	1	1	DOOR ASSEMBLY - Tail Lamp - Red Lens
	S-38631	2	2	2	2	2	2	SCREW - Door Retaining
34	A-TO-13466	1	1	1	1	1	★1	BULB - Tail Lamp
35	A-TO-13460	1	1	1	1	1	1	CABLE ASSEMBLY - Tail Lamp Connector
36	A-TO-76-B	-	1	1	1	1	1	SERVICE COMBINATION - Lighting Kit Composed of Items 37 thru 41
37	A-TO-9703-1	-	1	1	1	1	1	KNOB - Light Switch
38	A-TO-13435	-	1	1	1	1	1	NUT - Switch
39	A-TO-11652-1	-	1	1	1	1	1	SWITCH ASSEMBLY
40	A-TO-13431	-	1	1	1	1	1	WIRE - Ignition to Switch
41	A-TO-13172	-	1	1	1	1	1	WIRE - Light Switch to Harness
					★TE-A 12 Volt Kit			
	A-TS-76	-	-	-	-	-	1	LIGHTING KIT - 12 Volt Composed of Items 37 thru 41 and all items listed under A-TO-76-A1 with the following exceptions
	A-TS-13005	-	-	-	-	-	1	HEADLAMP ASSEMBLY - R.H.
	A-TS-13006	-	-	-	-	-	1	HEADLAMP ASSEMBLY - L.H. Composed of Items 1, 3 thru 7 and
2	A-TS-13007	-	-	-	-	-	1	BULB ASSEMBLY - Head Lamp
20	A-TS-11654	-	-	-	-	-	1	WIRING ASSEMBLY - Tail Lamp Composed of Items 21 thru 23
24	A-TS-13035	-	-	-	-	-	1	WORKLAMP ASSEMBLY - Rear Composed of Items 1, 3 thru 7, 25 and A-TS-13007
	A-TS-13410	-	-	-	-	-	1	TAIL LAMP ASSEMBLY - Rear Composed of Items 30 thru 33, 35 and
34	A-TS-13466	-	-	-	-	-	1	BULB - Tail Lamp



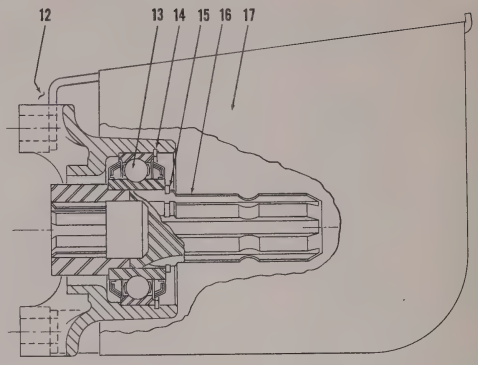


FIG. 34

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	FIG. 34 POWER TAKE-OFF CONVERSION KIT-SWINGING DRAWBAR
	A-TO-88	1	1	-	1	1	1	P.T.O. CONVERSION KIT - Swinging Drawbar
								For P.T.O. Kit with Extension Drawbar, See Fig. 35
								Composed of Items 1 thru 17
1	A-TO-71	1	1	-	1	1	1	CLEVIS ASSEMBLY
								Composed of Clevis not serviced and Items 2 thru 4
	A-TO-802	2	2	-	2	2	2	STUD - Short - Clevis to Center Housing
2	62-14	2	2	-	2	2	2	WASHER - Lock
	62-003	2	2	-	2	2	2	NUT - Lock
	A-TO-801	2	2	-	2	2	2	STUD - Long - Clevis to Center Housing
3	62-14	2	2	-	2	2	2	WASHER - Lock
	62-003	2	2	-	2	2	2	NUT - Hex
4	A-TO-820	1	1	-	1	1	1	PIN ASSEMBLY - Drawbar Clevis
								Composed of Pin not serviced and
	A-TO-821	1	1	-	1	1	1	SPRING - Latch - Drawbar Clevis Pin - Not Illustrated
	A-TO-822	1	1	-	1	1	1	DETENT - Latch
	A-TO-823	1	1	-	1	1	1	LEVER - Latch
	S-10221	1	1	-	1	1	1	PIN - Groove
5	A-TO-72	1	1	-	1	1	1	DRAWBAR ASSEMBLY - Swinging
								Composed of Items 6 thru 11
6	A-TO-840	1	1	-	1	1	1	STRUT ASSEMBLY - Drawbar
7	A-TO-835	1	1	-	1	1	1	GUIDE ASSEMBLY - Drawbar
	50-001-200	2	2	-	2	2	2	BOLT - Hex Head - Drawbar to Guide Plate
8	A-TO-832	2	2	-	2	2	2	SPACER - Plate
	50-14	2	2	-	2	2	2	WASHER - Lock
	50-003	2	2	-	2	2	2	NUT - Hex
9	A-TO-834	1	1	-	1	1	1	DRAWBAR - Swinging
10	A-TO-833	1	1	-	1	1	1	PLATE - Drawbar Guide
	50-011-125	2	2	-	2	2	2	BOLT - Carriage - Strut to Drawbar Guide
11	A-TO-831	2	2	-	2	2	2	SPACER - Strut
	50-104	2	2	-	2	2	2	WASHER - Flat
	50-003	2	2	-	2	2	2	NUT - Hex
12	A-TO-73	1	1	-	1	1	1	ADAPTER AND GUARD ASSEMBLY - P.T.O.
								Composed of Housing not serviced and Items 13 thru 17
13	S-9850	1	1	-	1	1	1	BEARING ASSEMBLY
14	S-10150	1	1	-	1	1	1	RING - Snap - Bearing Retainer
15	S-10151	1	1	-	1	1	1	RING - Snap - Bearing Retainer
16	A-TO-8925	1	1	-	1	1	1	SHAFT ASSEMBLY - Adapter
17	A-TO-8930	1	1	-	1	1	1	GUARD ASSEMBLY - P.T.O.

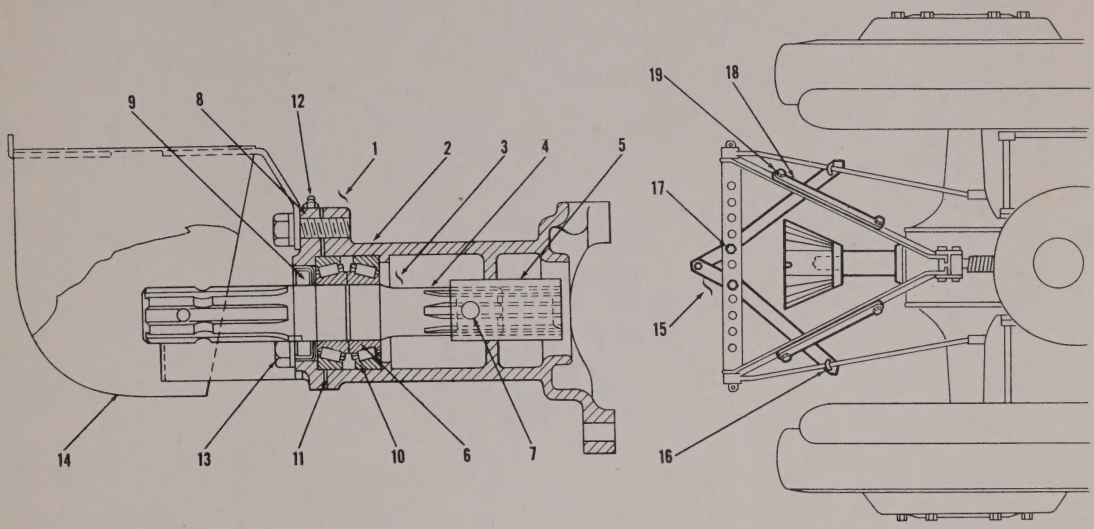


FIG. 35

REF. NO.	PART NO.	QUAN. REQUIRED TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	FIG. 35 POWER TAKE-OFF CONVERSION KIT-EXTENSION DRAWBAR
	C-LO-8920	1	1	1	1	1	1	P.T.O. CONVERSION KIT - Extension Drawbar
								For P.T.O. Kit with Swinging Drawbar, See Fig. 34
								Composed of Items 1 thru 19
1	C-LO-8921	1	1	1	1	1	1	SHAFT EXTENSION AND GUARD ASSEMBLY
								Composed of Items 2 thru 14
2	C-LO-8922	1	1	1	1	1	1	HOUSING - Shaft Extension
3	C-LO-8923	1	1	1	1	1	1	SHAFT ASSEMBLY
								Composed of Items 4 thru 7
4	C-LO-8924	1	1	1	1	1	1	SHAFT
5	C-LO-8926	1	1	1	1	1	1	SLEEVE
6	S-9875	2	2	2	2	2	2	CONE AND ROLLER
7	31-06-188	1	1	1	1	1	1	RIVET - Button Hd. - Sleeve to Shaft
8	C-LO-8928	1	1	1	1	1	1	COVER - Shaft Extension Housing
9	C-LO-8929-B	1	1	1	1	1	1	SEAL - Felt
10	S-9810	2	2	2	2	2	2	CUP - Bearing
11	C-LO-8941	As Req.	As Req.	As Req.	As Req.	As Req.	As Req.	SHIM - .012 Thick - Cover to Housing
	C-LO-8945	As Req.	As Req.	As Req.	As Req.	As Req.	As Req.	SHIM - .005 Thick
	C-LO-8946	As Req.	As Req.	As Req.	As Req.	As Req.	As Req.	SHIM - .003 Thick
12	12-107	1	1	1	1	1	1	FITTING - Lubricator - Housing Cover
13	44-101-150	3	3	3	3	3	3	SCREW - Cap - Cover to Housing
	44-14	3	3	3	3	3	3	WASHER - Lock
14	C-LO-8930	1	1	1	1	1	1	GUARD ASSEMBLY - Shaft Extension
15	C-LO-8935	1	1	1	1	1	1	EXTENSION DRAWBAR ASSEMBLY
								Composed of Extension not serviced and Items 16 thru 19
16	C-LO-8938	2	2	2	2	2	2	BOLT - Hook - Extension Drawbar to Lower Links
	62-14	4	4	4	4	4	4	WASHER - Lock
	62-003	4	4	4	4	4	4	NUT - Hex
17	62-011-250	2	2	2	2	2	2	BOLT - Carriage - Extension Drawbar to Drawbar
	62-14	2	2	2	2	2	2	WASHER - Lock
	62-003	2	2	2	2	2	2	NUT - Hex
18	C-LO-8934	2	2	2	2	2	2	BRACE - Stay
19	44-001-138	4	4	4	4	4	4	BOLT - Hex Head - Stay Brace to Upper Links

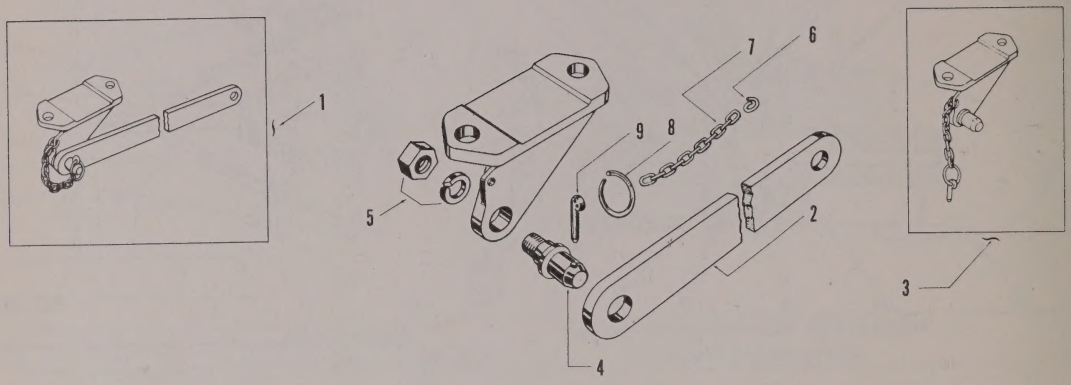


FIG. 36

REF. NO.	PART NO.	QUAN. REQUIRED						FIG. 36 STABILIZER ASSEMBLY
		TO-30	TO-20	9N-2N	TE-20	TE-A20 80MM	TE-A20 85MM	
	A-TO-59	1	1	1	1	1	1	STABILIZER ASSEMBLY - Complete Composed of Items 1 thru 9
1	A-TO-9781	1	1	1	1	1	1	STABILIZER ASSEMBLY - R.H.
	A-TO-9782	1	1	1	1	1	1	STABILIZER ASSEMBLY - L.H. - Not Illustrated Composed of Items 2 thru 9
2	A-TO-9662	1	1	1	1	1	1	LINK - Stay
3	A-TO-9635	1	1	1	1	1	1	BRACKET, ANCHOR AND LINCH PIN ASSY. - R.H.
	A-TO-9637	1	1	1	1	1	1	BRACKET, ANCHOR AND LINCH PIN ASSY. - L.H. - Not Illustrated Composed of Bracket not serviced and Items 4 thru 9
4	A-TO-9661	1	1	1	1	1	1	PIN - Link Stay Anchor
5	62-14	1	1	1	1	1	1	WASHER - Lock - Anchor Pin to Bracket
	62-003	1	1	1	1	1	1	NUT - Hex
6	S-9570	1	1	1	1	1	1	ANCHOR - Chain
7	S-9561-A	1	1	1	1	1	1	CHAIN - 6 Links
8	S-9563	1	1	1	1	1	1	RING - Linch Pin Locking
9	S-9552	1	1	1	1	1	1	PIN - Linch